Book"C"

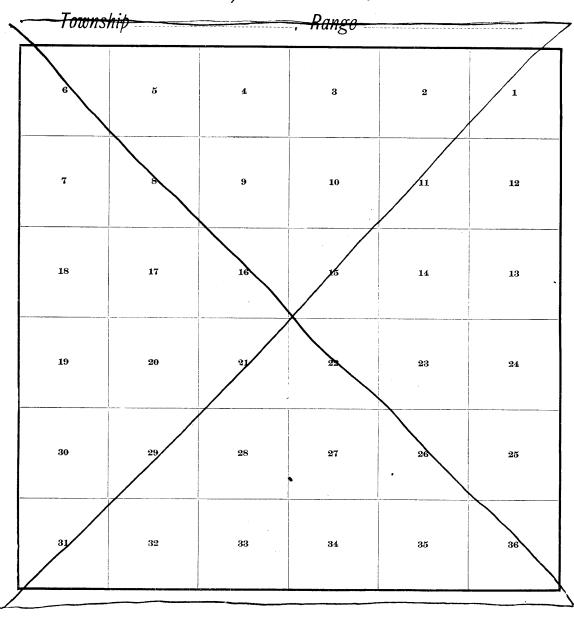
BOOK 2768

FIELD NOTES

OF THE SURVEY OF THE RESURVEY OF THE

EAST	BDY.	СF	THE	FT. A	PACHE	IND	IAN	RESI	ERVATION	Ī	
				AND	тнт			•	•		
EAST	BDY.	OF	THE	WHITE	MOUNT	CAIN	OR	SAN	CARLOS		
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	Of th	e man	Ja- er	id Bald	-Riwe	}} -		end.		dion;	
In the Sta	te of			A R]	ZONA						
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				WILL	IAM B	KII	MEL				
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In the cap	pacity of	f U. S	. Surve	eyor, t	under i	instru	ction	s dat	ed Febri	uary 1	8., 191 3 .,
issued by	the U	abla nited	State	es Sur	veyor (Jenero	ul to	gov	ern sur	veys inc	cluded in
Group No	26	, 7	which	were ap	proved	by th	e Con	nmiss	sioner of	the Gene	eral Land
Office,	e brual	cy 2	8	, 191	3 , pur	suant	to a	uthor	ity conta	ined in	the Act of
Congress o	dated	June	23		, 1913.	-	•				•
	ReSurv	vey co	mmen	ced	0.	ctobe	r 8	<u> </u>		191.3	
	ReSur	vey co	mplete	ed	No	ovemb	er	12	Ī	191 3	6—151

INDEX DIAGRAM. (see special index)



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173

Book "C" GROUP 26

Book No. 2768

Notes in this Book (indexed in Red Figures) - Book "A" "B" BOOK 2768 Surveyed Unsurveyed 27 E. T.BN. T.2N. White Mountain or San Carlos Indian Reservation 34. IN-28 E. G& S.R. 1S-28E. T.25. T.\$S.

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45-28E.

10 202,

/ 75

Resurvey of East bdy. of Fort Apache Indian Reservation.

Chains

Resurvey commenced Oct. 8, 1913, and executed with a Young and Sons Light Mountain Transit No. 8541, described on page 1, Book "A."

page 1, Book "A."
At the NE. cor. of the Fort Apache Indian Reservation, which is a stone 18x8x16 ins. protruding from a mound of stone, marked and witnessed as described by the Surveyor General. Lat. 33°55'N. Long. 109° 30'W. at 6h.27m. p.m. by my watch, which is correct 1.m.t, I observe Polaris at Eastern elongation in accordance with instructions in the Manual, and mark the line thus determined by a flag set firmly in the ground about 16 chs. south of the cor. Oct.8, 1913.

Oct. 9,1913. At the same station, at 8h. 2.m., l.m.t., I lay off the azimuth of Polaris, 1°23 to the left, and mark the true meridian thus determined by a flag firmly set on the ground about 14 chs. south of my instrument.

At the same station, at 8h.5m. a.m., l.m.t., I set off 33° 55 N. on the lat.arc; 6°92'S. on the decl.arc; and determine a meridian with the solar, which agrees with my Polaris observation takeh last night; therefore, I conclude that the adjustments of the instrument are satisfactory.

Thence I resurvey the east bdy. of the Ft. Apache Indian Reservation, and also the East bdy. of the White Mountain or San Carlos Indian Reservation, which is a continuation of the same line on same course. Existing conditions of the public land surveys contiguous to this line, allow an independent resurvey, and those old closing cors. of accepted surveys which I find along the line, I destroy and reset on the resurvey Reservation boundary east or west of their original on the resurveyed positions as the case may be, as hereinafter described.

As the Black or Salt River forms a natural boundary between the Fort Apache Indian Reservation on the north, and the White Mountain or San Carlos Indian Reservation on the south, and is consequently not monumented, the east bdy of both Reservations is resurveyed wih the NE. cor. of the Fort Apache Indian Reservation as the initial point for both, and all mile and half mile cors. are marked "W M I R" as though the entire line formed the east bdy. of the White Mountain Indian Reservation, the original designation of the line, before the establishment of the Fort Apache Indian Reservation. At the NE. cor. of the Fort Apache Indian Reservation, the magnetic decl. is 16° 35° E.

Thence I run, South, on true line, on 1st mile, east bdy. Fort Apache Indian Reservation, in sec. 16, fracT. 6 N., R. 27 E. Through heavy timber and undergrowth Descend SE. slope.

Draw, course SW. Descend SW. slope. 14.00

Spring on line, flows W. 18.10 Thence along west slope.

Spring on line, flows west. A fir, 34 ins.in diam., on line. 21.80 26.60 Descend SW. slope.

Telephone line, brs.SE. and NW.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished mile cor., marked on brass 35.25 40.00 cap,

1913 on S.rim,
W M I R in W., and
E M in E. half; from which,
spruce, 18 ins. in diam., brs.N.33°E.,14 lks. dist., marked W M I R & M B T.

A spruce, 13 ins. in diam., brs. N.58 & W., 119

lks.dist., marked W M I R & M B T.

45.58 A point 25 lks.east of the original location of closing cor. to secs. 16 and 21, frac. T. 6 N., R. 27 E., which location I determined N.10° W., 36 lks. from the burnt stump original bearing tree, on which are indications of markings. I destroy markings on the stump and recemarkings. I destroy markings on the stump, and reestablish the closing corner on Reservation line as follows:

```
2. Resurvey of East bdy. of the Fort Apache Indian Reservation
           Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 16 and 21, marked
                 on brass cap,
                                     1913 on S.rim,
                                    C C W. of center
                                    W M I R in W.half;
                               T 6 N S 16 in NE., and S 21 R 27 E in SE. quadrant; from which, A fir, 20 ins. in diam., brs. N. 642 E., 151 lks. dist., marked T 6 N R 27 E S 16 B T.
                               A spruce. 10 ins. in diam., brs.S.404°E.,95 lks.dist., marked T 6 N R-27 E S 21 B T.
           End of descent. Small stream, 4 lks.wide, 3 ins. deep, course SE. Thence along slight east slope.
45.45
           Rocky spur ridge, brs.E. Descend SE. slope, 150 ft. Trail, brs.E.and W. End of descent. North fork of Blue River, 20 lks.wide,
55.00
60.70
62.30
           8 ins. deep, course E.
Ascend N.slope. Enter burnt timber. Ascend 270 ft.
Rocky ledge, brs.E. and W. Ascend slightNE. slope; leave
64.50
70.65
                Burnt timber. Enter fallen timber.
           Along low ridge, brs.N.and S.
76.00
           Low ridge rock, brs. E. and W.
79.00
           Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for the reestablished 1 mile cor., marked
80.00
                 on brass cap,
                                     1913 on S.rim,
                                    1 M W. of center,
                               W M I R in W., and
T 6 N R 27 E in E.half; from which,
A pine, 16 ins. in diam., brs. N.50 = E., 86
lks.dist., marked T 6 N R 27 E S 21 B T.
An aspen, 10 ins. in diam., brs.S.51 = E., 77
lks.dist., marked T 6 N R 27 E S 21 B T.
                               A pine, 10 ins. in diam., brs.S.60°W.,17 lks. dist., marked W M I R 1 M B T.
                               A pine, 10 ins. in diam., brs.N.1220W.,26 lks. dist., marked W M I R 1 M B T.
           Land, mountainous and hikly.
           Soil, 3rd rate.
           Timber, pine, fir, spruce and aspen.
           Undergrowth, aspen.
           Good grass.
           Mountainous or heavily timbered land, 80.00 chains.
           Not: The sky was overcast at noon, making an observation
                for latitude impossible.
                                                                  Oct.9, 1913.
           Oct.10, 1913: At 7h. 59m. a.m., l.m.t., I set off 33°54'N. on the lat.arc; 6°32'S. on the decl.arc, and determine a meridian with the solar at the reestablished 1 mile
                corner on the east bdy. of the Fort Apache Indian Reservation. The magnetic variation at this cor.
                Reservation. is 14°12' E.
            Thence I run,
           South, on the east bdy. of the Fort Apache Indian Reserva-
                 tion.
            Through heavy timber and dense undergrowth. Descend SW. slope, 190 ft.to
13.70
14.90
15.70
         Thence over level land.
           Spring on line, flows east. Ascend NE. slope, 25 ft.to
           Spur ridge, brs. NE.; descend SE. slope, 30 ft. to Draw, course NE. Ascend NE. slope, 15 ft. to Low ridge, brs. E. and W. Descend SE. slope, 45 ft. to
17.50
26.00
31.00
37-20
           Small draw, course E.; ascend slight NW. slope, 55 ft. to
                ridge.
40.00
           Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
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esurvey of East bdy of the Fort Apache UIndian Reservation
Chains
                                         reestablished
                   the ground, for \lambda t mile cor., marked on brass cap,
                                       1913 on S.rim,
W M I R on W., and
l m on E.half; from which,
                                    A balsam fir, 7 ins. in diam., brs. N. 324°E., 16
                                   lks.dist.,marked W M I R l M B T.

A spruce, 8 ins. in diam., brs.N.67 W.,31 lks.
dist.,marked W M I R l M B T.
            Enter burnt-over timber.
41.00
            A point 24 lks.east of the original location of the closing corner to secs.21 and 28, fracT6 N., R.27 E., which
42.42
                  location I determined N.30°W., 20 lks.from the original bearing tree, a dead fir tree, 6 ins. in diam., marked T 6 N R 27 E S 28 B T.
             I obliterate markings on this tree, and reestablish the
             closing cor. on Reservation line, as follows:
Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in
the ground, for closing cor. of secs. 21 and 28, marked
                   on brass cap,
                                         1913 on S.rim,
C C W of center.
                                         W M I R in W.half;
                                 T 6 N S 21 in NE., and
R 27 E S 28 in SE. quadrant; from which,
A fir, 16 ins. in diam., brs.N.224°E.,80 lks.
dist., marked T 6 N R27 E S 21 B T.
A fir, 30 ins. in diam., brs.S.33°E.,94 lks.
dist., marked T 6 N R 27 E S 28 B T.
           Continue to ascend NW. slope, to
Low ridge, brs. NE. and SW. Note: At this point, Oct. 10,
1913, I set off 6° 37 2. S. on the decl. arc; and observe
the sun on the meridian at apparent noon; the result-
48.00
            ing lat. is 33° 53½ N.
Descend SW. slope, 195 ft.
Leave timber, brs. E'and W.
60.00
            End of descent; thence over level, land. Fork of Black River, 12, lks. wide, 8 ins. deep, course E.
62.00
63•70 -
            Ascend NE. slope, 155 ft.
66.00
             Enter scattering spruce timber, brs. E. and W.
            Enter fallen burnt-over timber.

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 2 mile cor.marked on brass
68.00
80.00
            1913 on S.rim,

2 M W.of center,

W M I R in W., and

T 6 N R 27 E S 28 in E.half; from which,

A fir, 18 ins. in diam., brs.S.702°E., 258 lks.

dist., marked T 6 N R 27 E S 28 B T.

A fir, 20 ins. in diam., brs.S.434°W., 177 lks.

dist., marked W M I R 2 M B T.

And raise a mound of stone, 3 ft. base, 2 ft. high, west of
                  cor. Pits impracticable.
            Land, mountainous and hilly.
            Undergrowth, scattering
            Heavily timbered land, 80.00 chs.
            Good grass.
            South, on the east bdy. of the Fort Apache Indian Reserva-
                  tion.
             Ascend NE. slope, 270 ft., through fallen burnt-over timber.
            A fir tree, 30 ins. diam., on line. Enter green timber.
Ledge rock, brs. E. and W.
End of ascent; thence over level land. Leave green timber;
 2.60
11.35
13.00
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enter burned-over timber.

Enter green timber.

22.00

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Resurvey of East bdy of the Fort Apache Indian Reservation.
Chains.
           Descend slight SE. slope, 300 ft.
30.00
40.00
           Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 2 m. cor., marked on
                 brass cap,
                                      1913 on S.rim,
                                      WMIR in W., and
                                    - 2 M in E.half; from which,
                                A pine, 10 ins. in diam., brs.N.15 E., 40 lks.dist., marked W M I R 2 M B T.

A pine, 18 ins. in diam., brs.N.76 W.,30 lks.dist., marked W M I R 2 M BT.
41.99
           A point, 81 lks.E. of the original closing cor. of secs.
            28 and 33, frac.T.6 N., R.27 E., which is a dead fir,
                 10 ins. in diam., marked W M I R on W.,
           T 6 N R 27 E S 28 on NE., and
T 6 N R 27 E S 33 on SE.
I obliterate the markings on this tree, and reestablish
           closing corner on Reservation line, as follows:
Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
the ground, for closing cor. of secs. 28 and 33, marked
                 on brass cap,

1913 on S.rim,
                                      C C W of center,
W M I R in W.half;
                                      T 6 N S 28 in NE-, and
                                      R 27 E S 33 in SE. quadrant; from which,
                                 An aspen, 10 ins. in diam., brs. N. 524°E., 32 lks. dist., marked T 6 N R 27 E S 28 B T. A pine, 8 ins. in diam., brs. S. 47 2°E., 15 lks. dist., marked T 6 N R 27 E S 33 B T.
            Spur ridge, brs/SW.; descend S. slope.
48.00
49.50
            Rock ledge brs.SE. and NW.
            Foot of descent; thence over level land.
           Stream 10 lks.wide, 2 ins.deep, course SE.
Ascend NE. slope, 150 ft.to ridge.
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 3 mile cor., marked on
64.72
66.00
80.00
                 brass cap,
                                      1913 . on S. rim,
                                       3 M W of center.
                                      WMIR in Whalf; and
                                      T 6 N R 27 E S 33 in E.half;
                                                                                          from which,
                               A fir, 11 ins. in diam., brs.N.74°E., 23 lks. dist., marked T.6 N R 27 E S 33 B T.

A spruce, 10 ins. in diam., brs.S.31½°E.,24 lks. dist., marked T 6 N R 27 E S 33 B T.
                              A spruce, 10 ins. in diam., brs. S.334°W.,27 lks.dist., marked W M I R 3 M B T.

An aspen, 8 ins. in diam., brs.N.774°W.,29 lks.dist., marked W M I R 3 M BT.
           Land, hilly and mountainous.
            Soil, 2nd and 3rd rate,
            Timber, heavy pine, spruce, fir and aspen.
            Undergrowth, scattering aspen.
Good grass. Heavy timber, 80.00 chains.
                                                                      Oct.10, 1913.
            Oct.11, 1913: At 8h. 15m. a.m., l.mt. I set off 33° 52½° N. on the lat.arc; 6°55'S.on the decl.arc; and deter-
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N. on the latearc; 6°55 S. on the declearc; and determine a meridian with the solar, at the reestablished 3 mile corner on the east bdy. of the Fort Apache Indian Reservation. The magnetic variation at this corner is 13°42 E.

Thence I run,
South, on the east bdy. of the Fort Apache Indian Reservation.

Over rolling land, through heavy timber.

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Resurvey of East bdy. of Fort Apache Indian Reservation.
Chains
            Ridge, brs. E. and W. Descend SE. slope, 90 ft.
 1.00
            Leave timber, brs. NE. and SW.
10.00
            Draw, course NE. Ascend slight NE: slope.
14.00
14.25
            Telephone line, brs. NE. and SW. .
                                                                               and
            Road brs. NE. and SW., bet. Thompson son Reservation Ranch. Enter green timber, brs. NE. and SW.
16.40
17.00
            Ascend NW. slope, 60 ft.to
18.00
28.00
             Thence along ridge, brs.N.and S.
            A fir, 30 ins.diam., on line.
A fir, 32 ins. diam., on line.
Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.
in the ground, for reestablished 32 M. cor., marked on
34.50
35.20
46.00
                  brass cap,.
                                        1913 in S.rim,
                                        W M I R in W.,
                                                                   and
                                        3意 M in E.half;
                                                                      from which,
                                  A fir, 14 ins. in diam., brs. S.15°E.,11 lks. dist., marked W M I R 3½ M B T.

A fir, 8 ins. in diam., brs.S.57½ W.,29 lks. dist., marked W M I R 3½ M B T.
             Thence over level land.
            A point, 106 lks.E. of the original location of closing cor. to frac.Ts.5 and 6 N., R.27 E., which location I determined N.45 W., 14 lks. dist.,from a dead pine
41.40
                  tree, 8 ins. in diam., marked T 5 N R 27 E S 4 B T.
             I obliterate the markings on this bearing tree, and re-
                  establish the closing cor. on Reservation line, as
                 follows:
             Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of frac. Ts. 5 and 6 N., R.
                  27 E., marked on brass cap, 1913 in S.rim, C C W of center; W M I R in W.half; T 6 N R 27 E S 33 in NE.,
                  and T 5 N R 27 E, S.4 in SE, quadrant; from which,
An aspen 8 ins. in diam., brs. S.57° E.,30,
Iks.dist.7 marked T 5 NR 27 E S 4 BT.
                                  A fir, 14 ins. in diam., brs.N.57°E.,33 lks. dist., marked T 5 N R 27 E S33 B T.
            A fir, 18 ins. in diam., on line.

A fir, 22 ins. diam., on line.
45.28
59.30
60.55
70.53
74.00
             A fir, 28 ins. diam., on line.
             A fir, 50 ins. diam., on line.
            Descend slight SW. slope.

A dead fir, 40 ins.diam., on line.

A fir, 18 ins. diam., on line. Thence over level land.

A fir, 20 ins. diam., on line.
76.00
77 • 64
78 • 38
            Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 4 mile cor., marked on brass
80.00
                  cap,
                                         1913 on Sorim,
                                4 M W of center, W.M I R in W., and T 5 N R 27 E S 4 in E.half; from which, A fir, 11 ins. in diam., brs.N.67° E. 4 lks. dist., marked T 5 N R 27 E S 4 B T.

An aspen, 14 ins. diam., brs.S.44°E.,44 lks. dist., marked T 5 N R 27 E S 4 B T.

A fir. 20 ins. diam. brs.S. 832°W. 82 lks.
                  A fir, 20 ins. diam., brs.S. 8320W., 82 lks.
dist., marked W M I R 4 M B T.
An aspen, 18 ins. diam., brs.N.5110W., 90 lks.
dist., marked W M I R 4 M B T.
e: At this cor.Oct.ll,1913, at apparent noon, I set
off 6° 592'S. on the decl.arc; and observe the sun on
                  the meridian; the resulting late is 33° 51 % N.
            Land, level and rolling.
Soil, 2nd and 3rd rate.
Timber, heavy fir, spruce pine and aspen.
             Undergrowth, scattering.
                                   Heavily timbered land,73 chains.
             Good grass.
            Magnetic var. at this cor. is 10 2°E.
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Resurvey of the East boundary of Fort Apache Indian Reservation
Chains.
                South, on the East bdy. of the Fort Apache Indian Reserva-
                      tion.
               Over level land, through heavy timber. Descend slight SW. slope.
  4.00
14.00
               Trail, brs. SE. and NW.
               Leave timber, brs. E. and W. Thence over level land.
16.00
             Leave timber, brs.E. and W. Thence over level land.
Enter timber, brs.SE. and NW. Thence along ridge, brs.S.
A fir tree, 22 ins. diam., on line.
A fir tree, 36 ins.diam., on line.
A point, 127 lks.west of the remains of original closing corner of secs4.and 9, frac.T.5 N.,R.27 E.,which is a small mound of stone, witnessed by a

A Pine 30 ins. diam., brs.N.80°E., 12 lks.dist.,
marked T 5 N R 27 E S 4 B T.
A dead pine brs.N.40°W., 12 lks.dist.,marked
W M T R B T.
22.00
26.25
34.35
37.01
                                           WMIRBT.
                I destroy this corner, and obliterate the markings on
                      the bearing trees, and reestablish the closing cor.
               on Reservation line, as follows:
Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in
the ground, for closing cor. of secs. 4 and 9, marked
                      on brass cap,
                                                 1913 on S.rim,
                                                 C C W of center, W M I R in W.half;
              W M I R in W.half;
T 5 N S 4 in NE., and
R 27 E S 9 in SE. quadrant; from which,
A pine, 7 ins. in diam., brs.N.47°E.,60 lks.
dist., marked T 5 N R 27 E S 4 B T.
A pine, 28 ins. in diam., brs.S.76½°E.,60 lks.
dist., marked T 5 N R 27 E S 9 B T.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for reestablished 4½ mile cor., marked on
40.00
                      brass cap,
                                                 1913 on S.rim,
                                                WMIR in W., and
42 M in E-half; from which,
                                          A pine, 14 ins. in diam., brs.N.572°E.,80 lks. dist., marked W M I R 42 M B T.

An aspen, 16 ins. diam., brs.N.102°W.,55 lks. dist., marked W M I R 42 M B T.
               Trail, brs. SE. and NW.
41.17
52.00
               Leave timber, brs. E. and W.
59.00
64.32
               Enter timber, brs.E.and W.
               A pine, 36 ins. diam., on line. Trail, brs. SE and NW.
66000
               Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
80.00 -
                      the ground, for reestablished 5 mile cor., marked on
                      brass cap,
                                       1913 on S.rim,
5 M W of center,
W M I Rin W., and
T-5 N R 27 E S 9 in E.half; from which,
A fir, h4 ins. in diam., brs.N.ll°E.,53 lks.
dist., marked T 5 N R 27 E S 9 B T.
A fir, 22 ins. in diam., brs.S.35°E.121 lks.
dist., marked T 5 N R 27 E S 9 B T.
A fir, 12 ins. in diam., brs.N.31° W., 80 lks.
dist., marked W M I R 5 M B T.
rees within limits. Raise a mound of stone, 3
               No other trees within limits. Raise a mound of stone, 3 ft.base, 2 ft.high, west of cor. Pits impracticable. Land, level and rolling. Soil, 2md and 3rd rate.
               Timber, heavy piner, fir, spruce and aspen.
               Undergrowth, scattering.
               Heavily timbered land, 67 chs.
                                                                                                     · Oct. 11, 1913.
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BOOK
 Resurvey of the East bdy. of the Fort Apache Indian Res.
             Oct. 13, 1913: At 8h. 10m. a,m., 1.m.t., I set off 33° 50 % N. on the lat.arc; 7°40 S. on the declearc; and de-
                   termine a meridian with the solar at the reestablished
                   5 M. cor. on the East bdy. of the Fort Apache Indian.
                  Reservation. The mag. variation at this corner is 13° 55 E.
             From this corner, Slaughter's Reservation Ranch brs.S.40°W., about 7 chs. dist.
Thence I run,
             South, on the east bdy. of the Fort Apache Indian Reserva-
                   tion.
             Over level land; no timber.
Ascend NW. slope, 15 ft. Corral brs.E. 3 chs.dist.
 11.00
 14.00
             Enter green timber, brs. Eand W.
17.00
24.00
             End of ascent. Thence over level land.
             Leave timber, brs.SE. and NW.
             Small draw, course NW.
Enter scattering timber, brs.E. and W.
A point 107 lks.W. of remains of original closing cor. of s
 28.00
 <u>37.00</u>
 37.23
                  secs. 9 and 16, frac. T.5 N., R.27 E., which is a small mound of stones. No indications of BTs. A small stone
                  showed faint indications of chisel marks. I destroy this mound, and reestablish the closing corner on Res-
                   ervation line as follows:
             Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
                  the ground, for closing cor. of secs. 9 and 16, marked
                   on brass cap,
                                        1913 on S.rim,
                                        C C W of center, W M I R in W.half;
                                T 5 N S 9 in NE°, and
R 27 E S 16 in SE quadrant; from which,
A spruce, 10 ins. in diam., brs.N.742°E.,551
lks.dist., marked T 5 N R 27 E S 9 B T.
A pine, 36 ins. diam., brs.S.7½°E.,83 lks.dist.,
            marked T 5 N R 27 E S 16 B T.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 5½ mile cor., marked on
                  brass cap,
                                       1913 on S.rim, W.M I R on W., and
                                  An aspen, 14 ins. diam., brs.S.874°E., 99 lks. dist., marked W M I R 5 M B T.

A pine, 14 ins. in diam., brs.N.52° W., 17 lks. dist., marked W M I R 5 M B T
            Trail, brs. NW. and SE.
Trail, brs. NW. and SE.

50.00 Enter timber, brs. SE. and NW. Descend S. slope, 215 ft.

62.00 Leave timber, brs. E. and W.

66.00 Draw, course SW. Thence along west slope.

72.00 Draw, course NW. Thence over level land.

77.09 A point, 109 lks. W. of the original $\frac{1}{2}$ sec. cor. to sec. 16,

frac. T. 5 N., R. 27 E., which is a stone, marked and

witnessed as described by the Surveyor General.
            I destroy all evidence of this cor.
Set an iron post 3 ft.long, 3 ins. in diam., 24ins. in the ground, for reestablished 6 mile cor., marked on brass
80.00
                  cap,
                                       1913 on S rim, 6 M W. of center,
                 W M I R in W., and
T 5 N R 27 E S 16 in E. half;
and raise a mound of stone, 5 ft.base, 4 ft. high, W. of
corner. Pits imprections.
                  corner.
                                        Pits impracticable.
            The mag. variation at this cor. is 13°25' E.
            Land, level and mountainous. Soil, 2nd, 3rd and 4th rate.
            Timber, heavy pine, spruce, fir and aspen.
            No undergrowth.
            Mountainous land, 14 chs.
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Resurvey of East boundary of Fort Apache Indian Reservation.
Chains
               South, on the East bdy. of the Fort Apache Indian Reserva-
                     tion.
               Over level land;
                                                  no timber.
Ascend slight NE. slope, 30 ft.
               Draw, course NW.
  8.00
10.50
               Trail, brs.SE. and NW.
13,60
               Trail, brs.SE. and NW.
16.00
               Enter scattering timber, brs. E. and W.
              Note: At this point, Oct.13, 1913, at apparent noon, I set off 7°45'S. on the decl. arc; and observe the sun on the meridian; the resulting late is 33° 50'N.

Enter heavy timber, brs. E. and W.
30.00
33•00
34•60
               Low ridge, brs. E. and W.
               Trail, brs. NE and SW.
              Being unable to find any trace of original closing core of secs. 16 and 21, frac. T.5 N., R:27 E., at this point, settemp. closing core here, and after determining the
37.00
                     distance between the closing cor. of secs. 9 and 16, and that of secs. 21 and 28 to be 159.79 chs., I find
                     the proper proportional location to reestablish the closing cor. of secs.16 and 21 onReservation line mid-
way between the two closing corners found, to be at

37.125 Where I set an iron post, 3 ft. long, 2 ins. in diam.,24
ins. in the ground, for reestablished closing cor.of
secs.16 and 21, marked on brass cap,
1913 on S.rim;
                                               C C W of center
                                              W M I R in W.half;
T 5 N S 16 in NE., and
                                        R 27 E S 21 in SE. quadrant; from which, An aspen, 12 ins. in dam., brs.N.54°E.,137 lks.dist., marked T 5 N R 27 E S 16 B T. An aspen, 10 ins. in diam., brs.S.68°E.,237 lks.dist., marked T 5 N R 27 E S 21 B T.
40.00
               Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 6\frac{1}{8} mile cor., marked on
                     brass cap,
              1913 on S.rim,

W M I R in W., and
6½ M in E.half; from which
A pine, 16 ins. in diam., brs. N.31½°E.,29
lks.dist., marked W M I R 6½ M B T.
A spruce, 9 ins. in diam., brs.N.58½°E.,69
lks.dist., marked W M I R 6½ M B T.

Low ridge, brs.E.and W. Descend slight SW. slope, 150 ft.
A pine, 22 ins. diam., on line.
A pine, 30 ins. diam., on line.
A snag 22 ins. in diam., 30 ft.high, on line.
A point, 144 lks.W.of. the original ½ sec.cor.of sec.21, frac.T.5 N., R.27 E. a stone in a mound of stone.
                                               1913 on Serim,
44.00
59.19
63.25
74.63
77.17
                     frac.T.5 N., R.27 E., a stone in a mound of stone, marked and witnessed, as described by the Subveyor General. I destroy all evidence of this cor.
              Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 7 mile cor., marked on
80.00
                    brass cap,
                                               1913 on Serim,
                                               7 M W of center,
                                               W M I R in W., and
                                               T 5 N R 27 E S 21 in E.half; from which,
                                        A spruce, 8 ins. in diam., brs.N.152°E., 33 lks. dist., marked T 5 N R 27 E S 21 B T.
                                        An aspen, 6 ins. in diam., brs.S.521°E.,85 lks. dist., marked T 5 N R 27 E S 21 B T.
                                        A spruce, 14 ins. in diam., brs.S.32°W.,61 lks. dist., marked W M I R 7 M B T.
              dist., marked W M I R 7 M B T.

A pine, 20 ins. in diam., brs.N.22°W.,58 lks.

dist., marked W M I R, 7 M B T.

Magnetic var. at this cor.,13° 30 E.
               Land, level and rolling.
               Soil, 2nd and 3rd rate.
               Timber, heavy pine, fir, aspen and spruce.
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Resurvey of the East bdy of Fort Anache Indian Reserve
Chains.
               Undergrowth, scattering.
               Heavily timbered land, 50 chs.
               South, on the East bdy.of the Fort Apache Indian Reserva-
               Over level land, through heavy timber.
               Draw, course SE. Ascend NE. slope, to
  1.65
              Spur ridge, brs.NE. Descend SE. slope, 25 ft.to Thence along rocky ledge, brs.south. Leave ledge; thence adong ridge, brs.south. Trail, brs.SE.and NW.
  4.50
10.00
16.00
36.00
              A point, 172 lks.west of the original location of closing corner of secs. 21 and 28 frac.T.5 N., R.27 E., which location I determine S.30 W., 28 lks.dist., from dig-
37.02
                     inal bearing tree,
A pine, 30 ins.in diam., marked T.5 N R 27 E S 21
                                            вŤ.
               I destroy all evidence of the old closing cor. and reestablish it on Reservation line, as follows:
               Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs 21 and 28, marked
                     on brass cap,
                                              .1913 on S.rim,
                                               C CW of center,
                                              W MI R in W.half;
T 5 N S 21 in NE, and
R 27 E S 28 in SE.quadrant;
                                                                                                            from which,
             An aspen, 10 ins.in diam., brs.N.36°E., 78 lks.
dist., marked T 5 N R 27 E S 21 BT.
A pine, 11 ins. in diam., brs.S.46½°E., 77 lks.
dist., marked T 5 N R 27 E S 28 BT.

Set an iron post 3 ft.long, lin. in diam., 26 ins. in
the ground, for reestablished 7½ mile cor., marked on
40.00
                     brass cap,
                                               1913 on S.rim,
W M IR in W., and
72 M in E.half; from which,
                                   A pine, 18 ins. in diam., brs. N.11° E., 62 lks. dist.
              mkd. W MI R 7\frac{1}{2} M B T.

A pine, 20 ins. in diam., brs.N.57°W., 53 lks.

dist., marked W M I R 7\frac{1}{2} M B T.

Oct. 13, 1913:

Oct. 14, 1913: At 8h. a.m., l.m.t., I set off 33° 48½ N.on
the lat.arc; 8° 2\frac{1}{2} S. on the decl.arc; and determine
                       a meridian with the solar at this corner.
60.00
              Descend slight SE. slope.
              A pine, 20 ins. in diam., on line.

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 8 mile cor., marked on
79.91
80.00
                     brass cap,
             1913 on S.rim,

8 M W of center,

W M I R in W., and

T 5 N R 27 E S 28 in E.half; from which,
A pine, 14 ins. in diam., brs.N.75°E.,41 lks.

dist., marked T 5 N R 27 E S 28 BT.

A pine, 24 ins.in diam., brs. S.83° E., 24 lks.

dist., marked T 5 N R 27 E S 28 B T.

A pine, 40 ins. in diam., brs.S.43½°W., 108 lks.

dist., marked W MI R 8 M B T.

A pine, 14 ins. in diam., brs.N.58¾°W.,108 lks.

dist., marked W MI R 8 M B T.

The magnetic variation at this point is 11½°E.

Land, level and rolling.
                                               1913 on S.rim,
              Land, level and rolling.
              Soil, 2nd and 3rd rate.
              Timber, heavy pine, spruce, fir and aspen.
              Undergrowth, scattering.
              Heavily timbered land, 80.00 chs.
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Chains.
              South, on the East bdy.of the Fort Apache Indian Reserva-
              Descend slight SE. slope, through heavy timber.
             A pine 30 ins. in diam. on line.
A pine, 18 ins. in diam., on line.
A pine, 35 ins. in diam., on line. Descend gentle south
 4.93
8.34
32.52
                    slope.
             Being unable to find any trace of the original closing corner of secs.28 and 33, frac.T.5 N.,R.27 E., I drive temporary stake at this point, and after determining the
37.00
                    dist. between the closing corner of secs.21 and 28, and standard closing cor.of frac.T.5 N., R.27 E. to be
                  160.56 chs., I find the proper proportional location
                    (midway between located closing cors.) to reestablish
this closing cor., to be at

Where I set an iron post, 3 ft.long, 2 ins. in diam.,24
ins. in the ground, for reestablished closing cor.of
secs.28 and 33, marked on brass cap,
                                             1913 on S.rim,
                                             C'C'W of center
                                            W MI R in W.half;
T 5 N S 28 in NE., and
R 27 E S33 in SE.quad.; from which,
             An aspen, 8 ins. in diam., brs.N.50°E.,70 lks. dist., marked T 5 N R 27 E S 28 BT.

A pine, 20 ins. in diam., brs.S.28°E., 104 lks. dist., marked T 5N, R 27 E S 33 BT.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 8½ mile cor., marked on brass can
40.00
                    brass cap,
             1913 on S.rim,

W MI R in W., and

8½ M in E.half; from which,

A pine, 10 ins. in diam., brs.S.34°E., 39 lks.

dist., marked W M I R 8½ M B T.

A pine, 28 ins. in diam., brs.S.4½°W., 72 lks.

dist., marked W M I R 8½ M B T.

Descend SW. slope, 106 ft.
             A dead pine, 20 ins. in diam., on line. Foot of descent. Set an iron post 3 f
72.54
                   ot of descent. Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 9 mile
                    corner, marked on brass cap, .
                                             1913 on S.rim,
9 M W of center
                                             W MI R in W.half; and
                                  T 5 N R 27 E S 33 in E.half; from which, A pine, 28 ins. in diam., brs.N.60°E.,11 lks. dist., marked T 5 N R 27 E S 33 BT.

A pine, 24 ins. in diam., brs.S.25°E., 24 lks. dist., marked T 5 N R 27 E S 33 B T.

A pine 10 ins. in diam., brs.S.84½°W., 64 lks.
              dist., marked W MI R 9 M B T.
A pine, 8 ins. in diam., brs.N.5\frac{3}{4}\text{W}., 60 lks.}
dist., marked W M I R 9 MB T.
The magnetic variation at this cor. is 9° 55' E.
                    e: Oct.14, 1913: At this cor., I set off 8° 07'S.on the decl.arc; and at apparent noon, observe the sun on the meridian; the resulting lat.is 33° 47' N.
              Land, rolling and level. Soil, 2nd and 3rd rate.
              Timber, heavy pine, aspen and fir.
              Undergrowth, scattering, same kind as timber. Heavily timbered land, 80 chs. .
              South, on the east bdy.of the Fort Apache Indian Reserva-
                    tion.
              Over level land, through heavy timber.
 4.00 Descend slight SE. slope.
37.58 Intersect the 1st. Standard Parallel North, at a point 31
                    1ks.west of original standard closing cor.of frac.T.
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5 N.R.27 E., which is a post badly decayed, set in a mound of stone. I destroy all evidence of this

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Resurvey of the East bdy of Fort Apache Indian Reservation.
Chains
              corner, and reestablished standard township closing corner on the Reservation line as follows:

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of frac. T.5 N., R.27 E.,
                    marked on brass cap,
                                              1913 on S.rim,
                                             C C W of center,
W M I R in W.half;
T 5.N R 27 E S 33 in NE., and
P L in SE.quadfant; from which
                                       A pine, 10 ins. in diam., brs.N.742°E.,79 lks. dist., marked T 5 N R 27 E S 33 B T.

A pine, 20 ins. in diam., brs.S.402°E.,64 lks. dist., marked W M I R P L B T.
              Set an iron post, 3 ft.leng, 1 in. indiam., 26 ins. in the ground, for reestablished 9 mile cor., marked on
40.00
                 ·brass cap,
                                              1913 on S.rim,
W.M.I.R. in W., and
9 M. in E.half; from which,
                                       A pine, 12 ins. in diam., brs.N.47°E.,32 lks. dist., marked W M I R 9½ M B T.

A pine, 16 ins. in diam., brs.N.59½ W.,82 lks. dist., marked W M I R 9½ M B T.
            A pine, 20 ins. in diam. on line. A pine, 28 ins. in diam. on line.
44.00
47.16
              Spur ridge, brs.SE. Descend SW. slope.
60.00
              Draw, course SE. Thence over level land.
Trail, brs.SE. and NW.
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 10 mile cor., marked on
64.00
65.18
80.00
                  brass cap,
                                                1913 on S.rim,
10 M W.of center,
                                                W M I R in W., and
              A pine, 12 ins. in diam., brs.N.56½°E.,25 lks.
dist., marked W M I R 10 M P L B T.

A pine, 14 ins. in diam., brs.S.30°E.,22 lks.
dist., marked W M I R 10 M P L B T.

A pine, 12 ins. in diam., brs.S.75°W.,23 lks.
dist., marked W M I R 10 M B T.

A pine, 14 ins. in diam., brs.N.51½°W., 27
lks.dist., marked W M I R 10 M B T.

The magnetic variation at this core is 12° 5 E.

Land. 1 weel and rolling.
                                              P L in E.half; from which,
               Land, devel and rolling.
               Soil, 2nd and 3rd rate.
               Timber, heavy pine and aspen.
               No undergrowth.
               Heavily timbered land, 80.00 chs.
                                                                                              Oct.14, 1913.
               Oct.15, 1913: At 8h. 5m. a.m., l.m.t., I set off 33°46½ Non the laterc; 8°24½ S. on the declearc; and deter-
                     mine a meridian with the solar at the reestablished 10 mile cor. on the east bdy. of the Fort Apache Indian
                     Reservation, described above.
               Thence I run,
               South, on the East bdy. of the Fort Apache Indian Reser-
                     vaion.
               Over level land, through heavy timber.
              A pine, 28 ins. in diam. on line.

A snag 24 ins. diam., on line.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 102 mile cor., marked
   6.96
26.53
                     on brass cap,

1913 on S.rim,
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W M I R on W, and from which,

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Resurvey of East bdy. of the Fort Apache IndianReservation.
Chains
                                 An aspen, 10 ins. in diam., brs.S.15°E.,51 lks. dist., marked W M I R 10½ M B T.

A pine,20 ins. in diam., brs.S.11½°W.,67 lks. dist., marked W M I R 10½ M B T.
52.30
            Trail brs.E. and W.
66.00
            Ascend slight NE. slope, 65 ft.
            A pine, 26 ins. in diam., on line.
End of ascent. Set an iron post, 3 ft.long, 3 ins. in
diam., 24 ins. in the ground, for reestablished 11 mile
79.25
                   cor., marked on brass cap,
                                      1913 on S.rim,
11 M W. of center,
                                        W M I R in W., and P L in E. Half; from which,
                                 A pine, 30 ins. in diam., brs.N.34°E.,32 lks.
dist., marked W M IR 11 M P L B T.

A pine, 20 ins. in diam., brs.S.48°E.,60 lks.
dist., marked W M I R 11 M P L B T.

A pine, 28 ins. indiam., brs.S.75½°W.,108 lks.
dist., marked W M I R 11 M B T.
             A pine 6 ins. in diam., brs.N.42°W., 39 lks. dist., marked W.M I R 11 M B T.

The magnetic variation at this cor. is 132°E.
             Land, level and rolling.
             Soil, 2nd and 3rd rate.
             Timber, heavy pine and aspen.
             No undergrowth.
             Heavily timbered land, 80.00 chs. .
             South, on the east bdy. of the Fort Apache Indian Reser-
                 vation.
             Through heavy timber. Descend SE. slope, 100 ft.to Draw, course SE. Ascend NE. slope, 75 ft.to rddge.
  8.00
             A pine, 20 ins. in diam., on line.

Spur ridge, brs. SE. Descend SE. slope, 155 ft.

A pine, 18 ins. in diam., on line.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished llm mile cor., marked on brass can.
11.35
18.00
26.00
34.34
                   on brass cap,

1913 on Serim,
                                          W M I R on W., and
                                  ll M in E.half; from which,

A pine, 16 ins. in diam., brs.N.81 E.,21 lks.

dist., marked W M I R ll M B T.

A pine, 12 ins. in diam., brs.N.78 W.,15 lks.

dist., marked W M I R ll M B T.
             Note: Clouds obscured he sun at noon this day, rendering
                   an observation for lat. impossible.
             Descend S. slope, 125 ft.
44.00
             Trail, brs. NE. and SW.
 60.70
             A pine, 36 ins. diam., on line; descend slight S. slope,
 62.30
                   in draw.
             Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 12 mile cor., marked on
80.00
                   brass cap,
                                          1913 on S.rim,
12 M W. of center,
                                          W M I R in W., and
                                          P L in E.half; from which,
                                 A pine, 20 ins. in diam., brs.N.82°E.,52 lks.
dist., marked W M I R 12 M P L B T.
A pine, 30 ins. in diam., brs.S. 41° W., 46
lks.dist., marked W M I R 12 M B T.
A pine 26 ins. in diam., brs.S.58°E.,42 lks.dist.,
              marked W M I R 12 M P L BT.

A pine, 8 ths. in diam., brs. N.70 W., 92 lks.dist.,

Marked W M I R 12 M B T.
              The mag. variation at this cor. is 14°15'E.
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Land, rolling. Soil, 2nd and 3rd rate.

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Resurvey of East bdy. of the Fort Apache Indian Reservation.
Chains Timber, heavy pine, fir, spruce and aspen.
             No undergrowth. Heavily timbered land, 80.00 chs.
             South, on the East bdy. of the Fort Apache Indian Reserva-
                   tion.
             Over rolling land, through heavy timber.

Draw, course SE. Thence along broken east slope.

East edge of rocky spur. Descend SE.slope, 45 ft.to
  4.20
16.00
20.50
23.72
34.00
             Thence over level land. Trail, brs.E. and W.
             Descend SE. slope, of canyon, 90 ft.

Rocky ledge, brs. NE and SW.

Canyon, course SW. Ascend NW. slope, 60 ft.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
35.90
38.70
40.00
                   the ground, for reestablished 12\frac{1}{2} mile cor., marked
                   on brass cap,
                                          1913 on S.rim,
W M I R in W., and
                                  12 M in E.half; from which,
An aspen 6 ins. in diam., brs.N.42°E.,24 lks.
dist., marked W M I R 12 M B T.
An aspen, 5 ins. in diam., brs.N.192°W., 31
                                         1ks.dist., marked W M I R 12 M B T.
             Oct. 15, 1913.

Oct. 16, 1913; At this corner, I set off 33° 44'N. on the laterc; 8°46½'S. on the declearc; and at 7h.58m. a.m., 1.m.t., I determine a meridian with the solar.
             Rocky spur, brs.W. Descend SW. slope, 215 ft.

Rocky precipice, 40 ft. to bottom, brs.SE. and NW. Continue to descend SW. slope of canyon, to
44.00
44.90
              Trout Creek, 30 lks.wide, 18 ins. deep, flows E. Thence
55.35
                   along broken east slope.
57.50
68.00
              Gulch, course E. Ascend broken No slope, 240 ft.
              Spur ridge, brs.E. Continue ascent.
              Draw, course E. Continue ascent to
69.00
             Spur ridge, brs.E. Descend SE. slope, 20 ft.to
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 13 mile cor., marked
78.50
80.00
                   on brass cap,
                                          1913 on S.rim,
13 M W of center,
                                          W M I R in W., and
P L in E. half; from which,
             P L in E. half; from which,
A pine, 30 ins. in diam., brs.N.15°E.,68 lks.
dist., marked W M I R 13 M P L B T.
A pine, 14 ins. in diam., brs.S.17°E.,36 lks.
dist., marked W M I R 13 M P L B T.
An oak, 7 ins. in diam., brs.S.84°W.,63 lks.
dist., marked W M I R 13 M B T.
A pine, 26 ins. in diam., brs.N.40½°W., 137
lksdist., marked W M I R 13 M B T.

Land, mountainous and hilly.
Soil, 2nd and 3rd rate.
Timber, heavy pine.
Undergrowth, scrub oak and aspen.
Heavily timbered land, 80.00 chs.
              Heavily timbered land, 80.00 chs.
              South, on the East bdy. of the Fort Apache Indian Reser-
                   vation.
              Through heavy timber. Descend SE. slope, 120 ft. to
              Thence along east slope.
   6.00
              Gulch, course NE. Ascend NW. slope, 200 ft.to
 12.00
             Thence along slight east slope.
Low ridge, brs.SE. and 政策. Descend south slope,30 丘t.to
24.00
34.00
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Draw, course E. Ascend slight NE. slope.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in

38.00 40.00

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14. Resurvey of East bdy. of the Fort Apache Indian Reservation.
Chains
                  the ground, for reestablished 13g mile cor. marked
                  on brass cap,
                                       1913 on S.rim,
                               W M I R in W., and 13 M in E.half; from which, A pine, 6 ins. in diam., brs. S. 86 E., 48 lks.
            dist., marked W M I R 13½ M B T.

A pine, 8 ins. in diam., bre.S.15½ W.,69 lks.
dist., marked W M I R 13½ M B T.

From this point, a pine thee, 22 ins. in diam., brs.W.984 lks.dist., marked W M I R 13½.
40423
52.50
64.00
            Low ridge, brs. NE. and SW. Descend slight SE. slope.
            Ridge, bra.SE. and NW. Descend SW. slope, 195 ft.to
Small creek, 6 lks.wide, 3 ins. deep, course SE. Ascend NE.
slope, 10 ftto
78.40
            Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 14 mile cor., marked on
80.00-
                 brass cap,
                                      1913 on S.rim,
14 M W.of center,
                                     W M I R in W., and
P L inE.half; from which,
                               A pine, 26 ins. diam., brs.N.ll°E., 5 dist., marked W M I R 14 M P L B T.
                               A pine, 10 ins. in diam., brs.S.82°E., 55 lks. dist., marked W M I R 14 M P L B T.
A pine, 8 ins. in diam., brs.S.422°W.,41 lks.
                               dist., marked W M I R 14 M B T.

A pine, 11 ins. diam., brs. N.53 W.,58 lks.dist.,
marked W M I R 14 M B T.
            The magnetic variation at this cor. is 13°40 E.

Note: At this cor., Oct.16, 1913, I set off 8°51½ S.on
the declare; and observe the sun on the meridian at
apparent noon; the resulting late is 33° 43' N.

Land mountainous and hills.
            Land, mountainous and hilly.
            Soil, 2nd, 3rd and 4th rate.
            Timber, heavy pine, scattering fir and aspen timber.
            Undergrowth, scattering.
            Heavily timbered land, 80.00 chs.
            South, on the east bdy. of the Fort Apache Indian Reser-
                   vation.
            Through heavy timber. Ascend NE. slope, 70 ft.to
            Ridge, brs. SE. and SNW. Thence over rolling land.
10.00
16.00
            Draw, course SE.
26.00
            Draw, course E.; ascend.
            Ridge, brs.E.and W. Descend slight SE. slope.
30.00
36.50
39.96
40.00
            Draw, course SE.; ascend gradually. A pine, 22 ins. diam., on line.
            Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 142 mile cor., marked
                   on brass cap,

1913 on S.rim,

W.M. I. R. in W., and
                                14 M in E.half; from which,
A pine, 6 ins. diam., brs. S.432°E., 31 lks.
dist., marked W M I R 14 M B T.
A pine, 16 ins. diam., brs.S.362°W.,26 lks.
dist., marked W M I R 14 M B T.
           A pine, 20 ins. diam., on line.
Low ridge, brs. SE. and NW. Descend SW. slope.
Blazed trail, brs. SE. and NW.
42.73
56.00
75.00
75.83
80.00
            A pine, 30 ins. diam., on line; descend S. slope.
Set an iron post, 3 ft.long, 3 ins. diam., 24 ins. in
                   the ground, for reestablished 15 mile cor., marked on
                   same brass cap,
1913 on S.rim,
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Resurvey of East bdy. of the Fort Apache Indian Reservation.
Chains
                                        15 M W of center,
                                        W M I R in W., and
                                        P L in E.half; from which,
                                A pine, 18 ins. in diam., brs. N. 67\frac{1}{2}°E.,51 lks.
                                dist., marked W M I R 15 M P L B T.

A pine, 20 ins. in diam., brs.S.59°E., 27 lks.
dist., marked W M I R 15 M P L B T.

A pine, 26 ins. in diam., brs.S.55°W.,55 lks.
dist., marked W M I R 15 M B T.
                                A pine, 18 ins. diam., brs.N.5920W., 36 lks. dist., marked W M I R 15 M B T.
            The magnetic variation at this corner is 12° 50° E.
            Land, rolling.
Soil, 2nd and 3rd rate.
            Timber, heavy pine.
            No undergrowth.
            Heavily timbered land, 80.00 chs.
            South, on the East bdy. of . the Fort Apache Indian Reserva-
                   tion.
            Descend slight S. slope, through heavy timber.
            Descend slight SE. slope.
14.00
            Trail, brs. SE. and NW.
16.00
            Corral, brs. E. 6 chs.dist.
Head of draw, course NE. Ascend NW. slope, 70 ft.
32.00
38.40
38.85
            Trail, brs.NE. and SW.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 15 mile cor., marked
40.00
                   on brass cap,
1913 on S.rim,
                                       W.M I R inw., and
                                       15 M in E. half; from which,
            A pine, 24 ins. indiam., brs.N.572°E.,58 lks.
dist., marked W M I R 15½ M B T.
A pine, 30 ins. in diam., brs. N.2½°W.,80 lks.
dist., marked W M I R 15½ M B T.
Oct.16, 1913.

Oct.17, 1913: At 8h. 3m. a.m.,1.m.t., I set off 33°41½°N.
on the lat.arc; 9°8½°S.on the decl.arc, and determine a meridian with the solar, at this cor.

Ledge rock. brs.NE. and SW.
            Ledge rock, brs. NE. and SW.
47.00
47.50
49.00
            End of ascent; thence along slight west slope.
            A pine, 30 ins. diam., on line.
            Ridge, brs.NE. and SW. Descend slight S. slope. A pine, 20 ins. diam., on line.
58.00
71.70
            Ridge, brs. E. and W. Descend SW. slope, 30 ft.to
Set an iron post 3 ft.long, 3 ins. diam., 24 ins. in the
ground, for reestablished 16 mile cor., marked on
76.00
80.00
                 brass cap,
                                       1913 on S. rim,
16 M W of center,
                                       W M I R in W.half;
                                 PLin E.half; from which,
A pine, 12 ins. in diam., brs. N.732°E.,85 lks.
dist., marked W M I R 16 M PL B T.
                                 A pine, 11 ins. in diam., brs. S.672°E., 68 lks.dist., marked W M I R 16 M P L B T. An oak, 9 ins. diam., brs.S.422°W.,120 lks. dist., marked W M I R 16 M B T. A pine, 14 ins. diam., brs.N.50°W.,97 lks. dist., marked W M I R 16 M B T.
            The magnetic variation at this corner is 14° 12' E.
            Land, gently rolling.
            Soil, 2nd and 3rd rate,
            Timber, heavy pine and scattering oak.
            Undergrowth, scattering oak.
Heavily timbered land, 80.00 chs.
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16. Resurvey of the East bdy. of the Fort Apace Indian Reservation.
Chains.
           South, on the East bdy. of the Fort Apache Indian Reserva-
                tion.
           Through heavy timber. Descend slight SW. slope, 20 ft.to Draw, course SW. Thence along broken west slope. Ascend.
~ 3.00
           Spur ridge, brs.W. Descend. Ascend NW. slope, 40 ftto
11.00
20.00
           Thence over level land.
24.00
30.00
           Ascend NW: slope, 30 ft.
           A pine.28 ins. diam., on line.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 16 mile cor., marked on
37.50
40.00
                brass cap,
                                   1913 on S.rim,
W M I R in W., and
16 M in E.half; from which,
                              A pine, 20 ins. in diame, brs.N.512°E.,61 lks.dist., marked W M I R 162 M B T.

A pine, 18 ins. diam., brs.N.342°W.,97 lks.

dist., marked W M-I R 162 M B T.
           Enter oak thicket, brs.NE. and SW. Leave oak thicket, brs.NE. and SW.
46.60
50.40
58.00
           Descend slight SE. slope.
           A pine, 30 ins. in diam., on line.
A pine 32 ins. in diam., on line.
70.15
 15.15
           Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 17 mile cor., marked
80.00
                 on brass cap,
                                  ·1913 on S.rim.
                                   17 M W of center,
                                   W M I R in W., and P L inE.half; from which,
                            A pine, 30 ins. in diam., brs. N.30°E.,48 lks. dist., marked W M I R 17 M P L B T.
                           A pine, 7 ins. in diam., brs.S.22°E., 31 lks. dist., marked W M I R 17 M P L B T.

A pine, 8 ins. in diam. brs.S.7°W., 23 lks.
                                   dist., marked W M I R 17 M B T.
                            An oak, 12 ins. in diam., brs.N.54°W., 5 lks.
                                   dist., marked W M I R 17 M B T.
           The magnetic variation at this core is 13½°E.

Note: At this core oct.17,,1913, I set off 9° 13½'S.on
the decleare, and observe the sun on the meridian
                 at apparent noon; the resulting lat. is 33°40½°N.
           Land, rolling and hilly.
Soil, 2nd, 3rd and 4th rate.
           Timber, heavy pine and scrub oak.
           Undergrowth, scattering oak. Heavily timbered land, 80.00 chs.
           South, on the East bdy. of the Fort Apache Indian Reserva-
                tion.
           Descend very slight SE. slope, through heavy timber.
           A pine, 18 ins. diam., on line.

Set an iron post 3 ft.long, 1 in in diam., 26 ins. in the ground for reestablished 17½ mile cor., marked on brass
32.75
40.00
                 cap,
                                   1913 on S.rim, W M I R in W., and
                                   17 M in E.half; from which,
                              A pine, 12 ins.in diam., brs.N.55°E., 23 lks. dist., marked W M I R 17 m B T.
                              A pine, 10 ins. in diam., brs.N.40°W.,13 lks. dist., marked W M I R 17 M B T
           Rocky ledge, brs. NE. and SW.; descend SE. slope of Black
40.35
                River Canyon, 270 ft.
           Rocky ledge, brs. NE and SW., 50 ft. to bottom.
44.95
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Resurvey of the East bdy. of the Fort Apache Indian Reservation.
Chains.
          End of descent; head of gulch, course E. Ascend slight

NE. slope, 25 ft.to

Ridge, brs.E. Descend SE. slope, 395 ft.to

Set an iron post, 3 ft. long, 3 ins. in diam. 24fins.in the ground for reestable 18 mile core, marked on brass cap,
51.50
58.00
80.00
                                                 1913 on S.rim,
18 M W. of center,
W M I R in W., and
P L in E.half; from which,
               P L in E.half; from which,
A pine, 14 ins. in diam., brs.N.57°E.,24 lks.
dist., marked W M I R 18 M P L B T.
A pine, 8 ins. in diam., brs. S.72°E., 22 lks.
dist., marked W M I R 18 M P L B T.
A pine, 9 ins. in diam., brs.S.242°W.,148 lks.
dist., marked W M I R 18 M B T.
A pine, 16 ins. in diam., brs.N.17°W.,82 lks.
dist., marked W M I R 18 M B T.
The magnetic variation at this corner is 12° 35° E.
Land, rolling and mountainous.
                Land, rolling and mountainous. Soil, 2nd, 3rd and 4th rate.
                Timber, heavy pine and scattering oak. Heavily timbered land, 80.00 chs.
                South, on the east bdy. of the Fort Apache Indian Reser-
                         vation.
                Descend SE. slope, 155 ft., through heavy timber. Trail, brs.NE. and SW.
   6.97
8.40
                Black River, 60 lks.wide, 3 ft. deep, flows SW. SE. cor.
                         of Ft. Apache Indian Reservation.
                Thence I run, continuing measurement south, on the
                 East Boundary of the White Mountain or San Carlos Indian
                                                               Reservation.
                Ascending N. slope, 280 ft. to
Ascending N. $10pe,200 It. to

Spur ridge, brs.W. Descend SW. slope, 190 ft.

County Bdy. Monument, a stone 16x16x6 ins., marked GRA on

W., GRE on E., and 91 plus 35.44 on S., with mound of

stone 6 ft. base, 6 ft. high, 6 ft. S. of cor., brs.

N.76°29 W., 19.08 chs. dist.

Old Reservation Bdy. brs.west 14.90 chs. dist.

Oct. 17, 1913.
                off 33°39'N. on the latearc, 12°00'Ston decl. arc; tand
                                                 At this point, at 8h-10m. a.m., 1.m.t., set
                Precipice, 50 ft.high.
 20.00
26.00
26.40
                Foot of descent; thence along west slope.
                A pine 30 ins. diam., on line.
                Gulch, course W.
Ascend NE. slope,795 ft.
38.35
39.50
                Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 182 mile cor., marked
 40.00
                       on brass cap,

1913 on S.rim,

W M I R in W., and
WMIRin W., and

18½ M in E.half; from which,

A pine, 7 ins. in diam., brs.N.79½°E., 52 lks.

dist., marked W MIR 18½ M B T.

An oak, 7 ins. diam., brs. N.3½°W., 63 lks.

dist., marked W MIR 18½ M B T.

51.30 A fir, 18 ins. diam., on line; gulch, course NE.

66.50 End of ascent; thence over level land.

70.12 Blazed line, brs.E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished 19 mile cor., marked on brass cap.
                       brass cap,
                                                   1913 on S.rim,
                                                   19 M W. of center,
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Resurvey of the

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R8. Rast Boundary of the White Mountain or San Carlos Ind.Res.
Chains.
                                      W M I R in W., and
                                      P L in E. half; from which,
                                A pine, 7 ins. in diam., brs.N. 92°E.,50 lks. dist., marked W M I R 19 M P L B T.

A pine, 12 ins. in diam., brs.S.132°E.,48 lks. dist., marked W M I R 19 M P L B T.
                                 A pine, 10 ins. in diam., brs.S.7220W.,32 lks.
                                      dist., marked W M I R 19 M B T.
            A pine, 10 ins. in diam., brs. N.60 % W., 29 ks.dist., marked W M I R 19 M B T.

The magnetic variation at this cor. is 13° 10 E.
            Land, mountainous and hilly.
            Soil, 3rd and 4th rate.
            Timber, heavy pine and fir. Scattering oak.
            Undergrowth, aspen, willow and locust.
            Heavily timbered land, 79.00 chs.
            Note: Oct.25, 1913: At the reestablished 19 mile cor., on the East bdy.of the White Mountain Indian Reservation, above described, I set off 12°5'S.on the decl.
                          and at apparent noon, observe the sun on the ian; the resulting late is 33°38 % N.
                 meridian;
            Thence I run,
            South, on the East bdy. of the White Mountain Indian Res-
                 ervation.
           Through heavy timber; ascend slight NE. slope to Ridge, brs. SE. and NW. Descend S. slope, 580 ft.to Canyon, course W. Ascend NW. slope, 115 ft.to ridge. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 192 mile cor., marked on
 4.00
34.50
40.00
                 brass cap,
                                      1913 on S.rim, W M I R in W., and
                                     192 M in E.half; from which,
                                A pine, 16 ins. in diam., brs. N. 65°E., 33 lks.
           dist., marked W M ·I ·R 19½ M B T.

A pine, 8 ins. in diam., brs. N.65°W., 33 ks.

dist., marked W M ·I ·R 19½ M B T.

Spur ridge, brs. SW. Descend S. slope, 540 ft.to

Bear Wallow Creek, 10 lks.wide, 6 ins. deep, course W.

Thence over level land.
41.00
55.70
56.00
            Trail, brs.E. and W.
56.80
63.70
67.65
           Low ridge, brs. E. and W.; ascend NW. slope, 55 ft. Along west slope.
           Draw, course NW. Ascend NE. slope, 115 ft.to
76.00
           Spur ridge, brs.E. Descend SE. slope, 15 ft.to
           Draw, course NE. Ascend NE. slope, 15 ft.to
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 20 mile cor., marked on
78.00
80.00
                 brass cap,
                                     1913 on S.rim,
                                     20 M W. of center,
                                     W M I R in W., and .
                              P L inE.half; from which,
A fir, 18 ins. in diam., brs. N. 46°E., 64 lks. dist.,
                                    marked W M I R 20 M P L B T.
                              A fir, 18 ins. in diam., brs.S.542°E.,69 lks.dist.,
                              marked W M I R 20 M P L B T.

A pine, 30 ins. in diam., brs.S.72°W.,12 ins.
dist., marked W M I R 20 M B T.

A pine, 14 ins. diam., brs.N.59°W. 8 lks.dist.,
marked W M I R 20 M B T.
            The magnetic variation at this cor. is 14° 8'E.
            Land, mountainous and hilly.
           Soil, 3rd and 4th rate.
           Timber, heavy pine, fir, juniper and aspen. Undergrowth, dense scrub oak, locust and willow.
            Heavily timbered land, 80.00 chs.
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Resurvey of the ^{
m E}ast bdy of the White Mountain or San Carlos
                                                                                                       Ind Res
Chains.
          Note: The sky was overcast at noon making an observation
              for latitude impossible.
                                                                          Oct.25, 1913.
           Oct. 26, 1913: At the reestablished 20 mile cor., on the East bdy. of the White Mountain Indian Reservation, above described, I set off 33°37 2 N. on the lat.arc; 12° 20½ S. on the decl.arc; and determine a meridian with
                the solar at 8h. 04m. a.m., 1.m.t.
           Thence I run,
           South, on the East bdy. of the White Mountain Indian Res-
                 ervation.
           Through heavy timber. Ascend NE slope, 110 ft. to
            Spur ridge, brs.E. Descend S. slope, 20 ft.to
 5.00
            Gulch, course E. Ascend N. slope, 100 ft.to
 7.50
           Rocky spur brs. E. and W. Descend S. slope, 30 ft. to
10.00
            Gulch, course NE. Ascend N. slope, 105 ft.to
12.50
17.00
28.00
            Thence along east slope.
            Descend SE. slope, 20 ft.to
           Draw, course NE. Ascend NW. slope, 355 ft.
Ridge, brs. NE. and SW. Ascend NW. slope.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 20 mile cor., marked on
30.00
33.00
40.00
                 brass cap,
                                1913 ons.rim,

W M I R in W., and

20 M in E.half; from which,

A pine, 8 ins. in diam., brs.N.2°E.,67 lks.

flist., marked W M IR 20 M B T.
                                A pine, 10 ins. in diam., brs.N.12°W.,60 lks. dist., marked W M I R 20 M B T.
            A pine 32-ins. diam., on line.
End of ascent; ridge, brs. SE. and NW. Descend SW.slope.
41.88
43.25
             . 70 ft.to
            Gulch, course SW. Ascend NW. slope, 240 ft.
52.00
           A pine, 28 ins. diam., on line. Thence along W. slope.

Descend SW. slope, 150 ft.to

Gulch, course W. Ascend NW. slope, 50 ft.to

Set an iron post, 3 ft. long, 3 ins.in diam., 24 ins.in
the ground, for reestablished 21 mile cor., marked on
66.65
68.00
78.00
80.00
                brass cap,
                                     1913 on S.rim,
                                     21 M W. of center,
                                     W M I R in W., and
                                     P L in E.half; from which,
                              A pine, 16 ins. in diam., brs.N.37° E., 60 lks. dist., marked W M I R 21 M P L B T.

A pine, 18 ins. in diam., brs.S.13°E., 25 lks. dist., marked W M I R 21 M P L B T.

A pine, 8 ins. in diam., brs.S.46½°W., 48 lks. dist., marked W M I R 21 M B T.

A pine. 20 ins. in diam. brs. N 701cm (F line)
                              A pine, 20 ins. in diam., brs. N. 78 W., 65 lks. dist., marked W M I R 21 M B T.
            Note: At this cerner, Oct. 26, 1913, I set off 12°25' S.on
                 the declearc, and at apparent noon, I observe the sun
                 on the meridian; the resulting lat. is 33° 37
            Land, hilly and mountainous. Soil, 4th rate.
            Timber, heavy pine and fir. Undergrowth, dense scrub oak and locust.
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South, on the East bdy. of the White Mountain Indian Reservation. Through heavy timber. Ascend NW. slope, 95 ft.to Thence along west slope.

Heavy timbered land, 80 chs.

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20. Resurvey of East bdy. White Mountain or San Carlos Ind. Res.
Chains.
             Draw, course W.; ascend NW. slope, 45 ft.to ridge. A pine, 32 ins. diam., on line.
 13.70
14.58
              Ridge, brs. E. and W. Descend SW. slope, 160 ft. to
 22.00
              Gulch, course W. Ascend NW. slope, 410 ft.
 29.80
              Draw, course NW.; ascend NE slope.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 21 mile cor., marked
 39.00
 40.00
                    on brass cap,
                                           1913 on S.rim,
                                            WMIR in W., and
                                            21g M in E.half; from which,
                                   A white pine, 18 ins. diam., brs.S.35°E.,59 lks.dist., marked W M I R 212 M B T.

A pine, 16 ins. diam., brs.S.61°W., 36 lks. dist., marked W M I R 212 M B T.
              Continue to a scend NE. slope, to Ridge, brs. NW and SE. Descend SW. slope, 430 ft.
 53.00
              Gulch, course SW. Continue descent.

Spur ridge, brs.W. Descend SW. slope.

Gulch, course W. Ascend NW. slope, 50 ft.to

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 22 mile cor., marked
71.75
75.50
77.50
80.00
                      on brass cap;
1913 on S.rim;
W of cent
                                            22 M W of center,
                                          W M I R in W., and
P L in E half; from which,
pine,14.ins. diam.,brs.N.64 E.,33 lks.dist.,
marked W M I R 22 M P L B T.
                                     A pine, 10 ins. in diam., brs.S.804°E., 122 lks.dist., marked W M I R 22 M P L B T.

Apine, 10 ins. in diam., brs.S.19½°W., 16 lks. dist., marked W M I R 22 M B T.

A pine, 8 ins. in diam., brs.N.724°W., 24 lks. dist., marked W M I R 22 M B T.
              The magnetic variation at this cor. is 13° 35' E.
              Land, mountainous and hilly.
              Soil, 3rd and 4th rate.
              Timber, heavy pine, fir, oak and aspen. Undergrowth, scrub oak and locust.
              Oct.27, 1913:
              South on the East bdy. of the White Mountain Indian Res-
                 . ervation.
              Through heavy timber. Ascend NW. slope, 30 ft.to
Spur ridge, brs.W. Descend SW. slope, 215 ft.to
Canyon, course W. Ascend N. slope, 425 ft.

Spur ridge, brs.NW. Thence along west slope.
Gulch, course NW. Ascend NE. slope.
Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 22 mile cor., marked on
  2.00
13.55
20.00
 34.00
40.00
                    brass cap,
                                     1913 on S.rim,

W M I R in W., and

222 M in E.half; from which,

A pime, 28 ins. diam., brs.S.17 E., 90 lks.dist.,

marked W M I R 22 M B T.
                                     A pine, 20 ins. in diam., brs.S.12 W.,73 lks. dist., marked W M I R 22 M B T.
42.00
              End of ascent, ridge, brs.E. and W.
                                                                                     Descend_SW. slope,
                      245 ft.to
              Gulch, course W. Ascend N. slope, 65 ft.to
Ridge, brs.E. and W. Descend SE. slope, 222 ft.to
 58.00
 63.00
              Gulch, course W. Trail, brs. E. and W. Spring up gulch about 3 chs. dist Ascend NW. slope, 150 ft. to
74.00
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Resurvey of East bdy of White Mountain or San Carlos Ind Res.
Chains
              Set an iron post, 3 ft.long, 3 ins.diam., 24 ins. in the ground, for reestablished 23 mile cor., marked on brass
80.00
                     cap,
                                               1913 on S.rim,
                                               23 M W.of center,
                                        W M I R in W., and
P L in E.half; from which,
A pine, 14 ins. diam., brs. N. 53°E., 81 lks.dist.,
marked W M I R 23 M P L B T.
                                        A pine, 16 ins.diam., brs.S.38°E.,89 lks.dist., marked W M I R 23 M P L B T.

A pine, 12 ins.diam., brs.S.342°W.,139 lks.dist., marked W M I R 23 M B T.
              A pine, 8 ins.diam., brs.N.19 ..., 52 lks.dist., marked W.MI.R. 23 M B T. The mag.variation at this cor. is 17 42 E. Land, mountainous and hilly. Soil, rocky, the rate. Timber, heavy pine, fir and oak. Undergrowth, dense scrub oak, locust and aspen.
               Heavily timbered land, 80.00 chs.
              At 2h.5m. p.m., l.m.t., I set off 33° 35 N. on the later; 12°46 S. on the declearc; and determine a meridian with the solar at the reestablished 23 mile cor. on
                     the East bdy. of the White Mountain Indian Reservation,
                     described above.
               Thence I run,
               South, on the East bdy. of the White Mountain Indian Res-
                      ervation.
               Through heavy timber. Ascend NW. slope, 50 ft.to ridge. Head of draw, course W.
  4.00
              Ridge, brs. E. and W. Eagle and Black River Divide. Descend SW. slope, 575 ft. to Gulch, course W. Ascend NW. slope, 105 ft.
10.00
34.00
              Ridge, brs.E. and W. Descend S. slope, 550 ft. to gulth.
Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 23 mile cor., marked on
38.50
40.00
                     brass cap,
                                                1913 on S.rim, W M I R in W., and
              W M I R in W., and

23½ M in E.half; from which,

A juniper, 20 ins. in diam., brs.S.75°E.,95

lks.dist., marked W M I R 23½ M B T.

A pine, 8 ins. in diam., brs.N.76½°W.,159

lks.dist., marked W M I R 23½ M B T.

Gulch, course W. Thence over rolling land.

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 24 mile cor., marked on brass cap.
64.00
80.00
                     brass cap,
                                                1913 on S.rim,
24 M W.of center,
                                               W M I R in W., and
P L in E.half; from which
                                         A juniper, 10 ins. in diam., brs. N. 20°E., 214 lks. dist., marked W M I R 24 M P L B T.
                                         A juniper, 26 ins. in diam., brs.S.52½°E.,68 iks.dist., marked W M I R 24 M P L B T.

A juniper, 18 ins. diam., brs.S.19½°W.,126 lks.dist.,marked W M I R 24 M B T.
               A juniper, 12 ins. in diam., brs.N.65°W.,93 lks.dist., marked W M I R 24 M B T.

The magnetic variation at this cor. is 14°34 E.
               Land, mountainous and rolling.
Soil, 4th rate.
                Timber, scattering pine and juniper.
                Undergrowth, dense scrub oak.
                Scattering timber, 80 chs.
                                                                                             Oct.27, 1913.
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Chains.
             Oct.28, 1913: At 7h. 58m. a.m., l.m.t., I set off 33°34'N. on the lat.arc; 13°1'S. on the decl.arc; and determine a meridian with the solar at the reestablished 24 mile
                   cor. on the East bdy. of the White Mountain Indian Res-
                   ervation, above described.
             Thence I run,
             South, on the East bdy. of the White Mountain Indian Res-
                   ervation. -
             Through heavy timber. Descend slight SW. slope, 350 ft.to
             Head of draw, course SW. Thence along west slope.
32.00 -
             Set an iron post 3 ft.long, 1 in. in fiam., 26 ins. in the ground, for reestablished 24 mile cor., marked on brass
40.00
                   cap,
                                          1913 on S.rim,
                                          WMIR in W., and
                                  24½ M in E.half; from which,
An oak, 20 ins. in diam., brs.S.14°E.,61 lks.
dist., marked W M I R 24½ M B T.
A pine, 20 ins. in diam., brs.S.71°W., 44 lks.
dist., marked W M I R 24½ M B T.
brs.SW. Descend SE. slope, 345 ft.to wash.
             Low ridge, brs.SW.
46.00
48.30
             A juniper, 26 ins. diam., on line.
             Wash, 10 lks.wide, course E.

Set an iron post, 3 ft.long, 3 ins. diam., 24 ins. in the ground, for reestablished 25 mile cor., marked on brass
71.00
80.00
                   cap,
                                          1913 on S.rim,
                                          25 M W. of center, W M I R in W., and
                                       . P L inE.half; from which
                                    An oak, 5 ins. diam., brs.N.682°E., 72 lks.

dist., marked W M I R 25 M P L B T.

A pine, 6 ins. diam., brs.S.282°E.,16 lks.

dist., marked W M I R 25 M P L B T.
             A pine 16 ins. diam., brs.S.77 & W., 86 lks.

dist., marked W M I R 25 M B T.

An oak, 20 ins. diam., brs.N.64 W., 41 lks.

dist., marked W M I R 25 M B T.

The magnetic variation at this cor. is 14° 25 E.
             Land, rolling and hilly. Soil, 4th rate.
             Timber, heavy oak, pine and juniper. Undergrowth, dense scrub oak.
             Heavily timbered land, 80.00 chs.
              South, on the East bdy. of the White Mountain Indian Res-
                   ervation.
              Along broken west slope, through dense scrub oak under-
                    growth.
              Ascend slight NW. slope, to
30.00
36.00
40.00
              Descend SW. slope, 180.ft.
             Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 25\frac{1}{2} mile cor., marked on
                 brass cap,
                                          1913 on Sorim, W M I R in W.
                                                                      and
                                        25 M in E. half; from which,
                                     25½ M in E. half; from which,
An oak, 8 Ins. in diam., brs. N.31½°E.,96
lks.dist., marked W M I R 25½ M B T.
                                     An oak, ll ins. in diam., brs.N. 54°W lks.dist., marked W M IR 25 M B T.
             Descend in wash, course SW. Enter from NW.
Leave wash, course SE. Ascend NE. slope, 35 ft.to
Spur ridge, brs.E. Descend SE. slope, 40 ft.
Ridge, and trail, brs. SE. and NW. Descend SW. slope.
Low spur ridge, brs.NE. Descend S. slope.
Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 26 mile cor., marked in
brass cap.
56.00
 64.00
66.75
 80.00
                    brass cap,
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Resurvey of East bdy. of White Mountainor San Carlos Ind. Res.

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Resurvey of East bdy of White Mountain or San Caplos Ind Res
Chains
                                          1913 on S.rim,
                                        .26 M W. of center,
                                          W M I R in W., and
P L in E.half; from which,
                                  An oak, 24 ins. in diam., brs. N. 18°E., 20 lks.
                                  dist., marked W M I R 26 M P L B T.

An oak, 26 ins. in diam., brs.S.572°E., 156
lks.dist., marked W M I R 26 M P L B T.

An oak, 12 ins. diam., brs.S.46°W., 288 lks.
dist., marked W M I R 26 M B T.
             A juniper, 26 ins. diam., brs.N.26°W., 28 lks. dist., marked W M I R 26 M B T.

The magnetic variation at this cor. is 14°10° E.

Note: At this cor., Oct.28, 1913, I set off 13° 5½°S. on the decl. arc; and at apparent noon, I observe the sun on the meridian: the reculting letitude is 77° 70°15°.
                   on the meridian; the resulting latitude is 33° 32½ N.
           Land, rolling snd hilly. Soil, 4th rate.
Timber, heavy pine and oka. Undergrowth, dense scrub oak.
             South, on the East bdy. of the White Mountain Indian Res-
                 ervation.
             Over gently rolling land, through heavy timber and scattering undergrowth.
  4.00
             Draw, course SW.; ascend.
             Spur ridge, brs.SW. Descend S. slope to Trail, brs. SE. and NW. Wash, 40 lks.wide, 4 ft. deep, course SE. Thence over level land.
8.00
14.45
                                                    Descend S. slope to wash.
19150
24.00
             Ascend NE. slope, 15 ft.to
             SE. end of spur ridge.
26.00
27.00
34.00
             Draw, course E. Ascend slight NE· slope.
             Ridge, brs.E. and W. Thence along slight east slope. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 26\frac{1}{2} mile cor., marked
40.00
                   on brass cap,
                                    1913 on S.rim,

W M I R in W., and

26 M in E.half; from which,

An oak, 14 ins. in diam., brs. S. 65 E., 65 lks.
             dist., marked W M I R 26\frac{1}{2} M B T.

An oak, 11 ins. in diam., brs.S.48\frac{1}{2} W., 150

lks.dist., marked W M I R 26\frac{1}{2} M B T.

Descend south slope, 70 ft.to
42.00
             Draw, course SE. Ascend NE. slope, 85 ft.to
51.00
             Ridge, brs. E. and W. Thence along east slope. Descend south slope, 70 ft. to
60.00
67.00
             Dry fork of Eagle Creek, 50 lks.wide, 4 ft. deep. over level land.
73.80
                                                                                                               Theace
             Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 27 mile cor., marked
80.00
                   on brass cap,
                                          1913 on Sorim,
27 M W. of center,
                                          W M IR in W., and
                                    P L inE.half; from which,
A pine, 10 ins. in diam., brs.N.121°E.,28
lks.dist., marked W M I R 27 M P L B T.
A pine, 26 ins. in diam., brs.S.91°E.,182
lks.dist., marked W M I R 27 M P L B T.
                                   A pine, 20 ins. diam., brs.S.3.w.,228 lks. dist., marked W M I R 27 M B T.

A pine, 18 ins. diam., brs.N.50. w., 22 lks. dist., marked W M I R 27 M B T.
             The magnetic variation at this core is 13°15 E. Land. level and rolling
             Land, level and rolling.
             Soil, 3rd and 4th rate.
             Timber, heavy oak, juniper and pine. Undergrowth, scrub oak.
             Heavily timbered land, 80 chs.
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Oct.28, 1913.

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24. Resurvey of East bdy. of White Mountain OrdSan Carlos Ind. Res.
Chains
              Oct. 29, 1913: At 7h. 5m. a.m., l.m.t., O I set off 33° 31½ N. on the lat.arc; 13° 21½ S. on the decl.arc; and determine a meridian with the solar at the reestablished 27 mile cor. on the East bdy. of the White Moun-
                   tain Indian Reservation, described above.
              Thence I run,
              South, on the East bdy. of the White Mountain Indian Res-
                     ervation.
               Over level land, through heavy timber.
  2.00
               Ascend NE. slope, 155 ft.to
                                                        Descend SE. slope, 60 ft. to
               Spur ridge, brs. NE.
17.00
              Gulch, course NE. Ascend NW. slope, 100 ft.
Ascend slight NE. slope.
Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 27½ mile cor., marked
21.00
29.00
46.00
                     the ground,
on brass cap,
1913 on S.rim,
W M I R in W., and
27 k M in E.half; from which,
20 ins. in diam., brs.N
                                        An oak, 20 ins. in diam., brs.N. 65½°E., 78 lks.dist., marked W M I R 27½ M B T.

A pine, 14 ins. diam., brs. N. 47½ W., 99 lks. dist., marked W M I R 27½ M B T.
               Ascend on ridge, brs.S.
              Descend SW. slope, 20 ft.to
Draw, course NW. Ascend N. slope, 45 ft.to
Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 28 mile cor., marked
53.00
56.00
80.00
                     on brass cap,
                                              1913 on S.rim,
28 M W of center,
                                     W M I R in W., and
P L in E.half; from which,
An oak, 12 ins. in diam., brs. N.8°E., 163 lks.
dist., marked W M I R 28 M P L B T.
An oak, 8 ins. in diam., brs. S.50½°E., 127 lks.
dist., marked W M I R 28 M P L B T.
A junior, 12 ins. in diam., brs. S.42½°W., 204
                                      A juniper, 12 ins. in diam., brs.S.421°W., 204 lks.dist., marked W M I R 28 M B T.

A juniper, 24 ins. in diam., brs.N.67°W.,424 lks.dist, marked W M I R 28 M B T.
               The magnetic variation at this corner is 14° 15°
               Land, level and rolling.
               Soil, 3rd and 4th rate.
               Timber, heavy oak, juniper and pine. Undergrowth, scattering scrub oak. Heavily timbered land, 80.00 chs.
               South, on the East bdy. of the White Mountain Indian
                     Reservation.
               Through scattering timber. Descend slight SW. slope, 225 ft.to
               Canyon, course SW.
                                                        Ascend NW. slope. Ascend 190 ft.
 23.00
 30.00
38.00
               Thence along west slope.
                                                                     Ascend NE slope.
               Head of draw, course NW.
               Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 28 mile cor., marked
 40.00
                       the ground, 10.

on brass cap,

1913 on S.rim,

W M I R in W., and

28½ M in E. half; from which,

An oak, 12 ins. in diam., brs.N.92°E., 64

lks.dist., marked W M I R 28½ M B T.

A pine, 10 ins. in diam., brs.N.27½°W., 43

lks.dist., marked W M I R 28½ M B T.
               Note: At this cor. Oct. 29,1913,1, set off 15.26.5. on deel arcic observe the sun on the mer. the resulting lat. is 33 7 Spur ridge, brs. SW. Thence along slight E. slope. (30)
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Resurvey of East bdy of White Mountain or San Carlos Ind Res
Chains
              Descend S. slope, 240 ft.to
54.00
               Canyon, course W. Ascend NW. slope, 200 ft.to
65.80
              Thence along west slope. Trail, brs. NE. and SW.
72.20
73.15
77.50
80.00
              Descend SW. slope, 35 ft.to
Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in
                     the ground, for reestablished 29 mile core, marked on
                     brass cap,
                                               1913 on S.rim,
                                              29 M W. of center,
                                               W M I R in W., and
                                               P L inE.half; from which,
                                        A juniper, 20 ins. in diam., brs.N.16°E.,27 lks.dist., marked W M I R 29 M P L B T.

An oak, 16 ins. diam., brs.S.65°E., 25 lks. dist., marked W M I R 29 M P L B T.
                                        An oak, 12 ins. in diam., brs.S.47°W.,107 lks. dist., marked W M I R 29 M B T.

An oak, 10 ins. in diam., brs.N.56°W., 69 lks. dist., marked W M I R 29 B T.
               The magnetic variation at this cor. is 13°E.
               Land, rolling and hilly.
               Soil, 4th rate.
               Timber, heavy pine, oak and juniper. Undergrowth, dense scrub oak.
               Heavilytimbered land, 80.00 chs.
               South, on the Eastbdy. of the White Mountain Indian Res-
                     ervation.
                                             timber and dense undergrowth. Descend S.
               Through heavy
                     slope, 210 ft.to
               Canyon, course W. Ascend NW. slope, 205 ft.to
7.35
18.00
              Spur ridge, brs. W. Descend SW. slope, 165 ft.to
Canyon, course W. Ascend N. slope, 170 ft.to
Spur ridge, course W. Descend SW. slope, 390 ft.to
Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 29½ mile cor., marked
29.00
36.00
40.00
              the ground, for reestablished -/2 miles on brass cap,

1913 on S.rim,

W M I R in W., and

29½ M in E-half; from which,

A juniper, 6 ins.in diam., brs.S.73½°E.,145

lks.dist., marked W M I R 29½ M B T.

An oak,67ins. in diam., brs.S.34½°W.,80 lks.

dist., marked W M I R 29½ M B T.

Descend SW slope, 370 ft.to

Wash course SW.
51.00
62.00
               Wash, course SW.
               Wash, course SW.
               Wash, course W. Ascend N. slope, 15 ft.to
Low spur ridge, brs.W. Descend SW. slope, 125 ft.to
Gulch, course W. Ascend NW. slope, 50 ft.to
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 30 mile cor., marked
 66.00
 68.00
 77-00
 80.00
                     the ground,
on brass cap,
1913 on Serim,
30 M We of center,
                                                W. M I R in W., and
                                        P L in E.half; from which,
A juniper, 8 ins. in diam., brs.N.59\(\frac{1}{2}\) E.,208
lks.dist., marked W M I R 30 M P L B T.
A pine, 14 ins. in diam., brs.S.84°E., 87
lks.dist., marked W M I R 30 M P L B T.
A juniper, 20 ins. in diam., brs.S.35\(\frac{1}{2}\) W., 164
lks.dist., marked W M I R 30 M B T.
               A pine, 20 ins. in diam, brs. N. 60 20 W., 194 lks. dist., marked W M I R 30 M B T.

The magnetic variation at this corl is 14°12' E.
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Resurvey of East bdy. of White Mountain or San Carlos Ind. Res.
Chains.
           Land, rolling and hilly. Soil, rocky, 4th rate.
           Soil, rocky,
           Timber, scattering oak, juniper and pine timber. Undergrowth, dense scrub oak and locust.
                                                                 Oct.29, 1913.
           Oct.30, 1913: At 8h. 10m. a.m., l.m.t., I set off 33°29' N. on the decl.arc; 13°42'S. on the decl.arc; and determine a meridian with the solar, at the reestablished
                30 mile cor. on the East bdy. of the White Mountain
                Indian Reservation, described above.
           Thence I run,
           South, on the East bdy. of the White Mountain Indian Res-
            ervation.
           Through scattering timber and dense undergrowth. Ascend
             . NW. slope, 30 ft.to
 4.00
           Along west slope.
 8.00
           Descend SW. slope, 125 ft.to
15.00
           Gulch, course SE. Ascend NE slope, 50 ft.to.
20.00
           Along east slope.
22.00
           Descend SE. slope, 180 ft.to
38.00
           Thence along east slope.
40.00
          Set an iron post 3 ft.long, 1 in in diam., 26 ins. in the
                 ground, for reestablished 30 mile cor., marked on
                 brass cap,
                                  1913 on S.rim, W M I R in W., and
                                   30 M in E. half; from which,
                              A juniper, 10 ins. in diam., brs.S.5 to E.,52 lks.dist., marked W M I R 30 to M B T.
          An oak, 10 ins. in diam., brs. S.15 W.,58 lks.dist., marked W. M. I. R. 30 M. B. T.

Middle Fork Eagle Creek, 7 lks.wide, 2 ins. deep, course. SE. Ascend broken NE. slope, 115 ft.

Trail, brs.SE. and NW.
42.00
42.65
          Spur ridge, brs.E. Descend SE. slope, 52 ft.to Draw, course NE. Ascend NE. slope, 55 ft.to Spur brs.E. Descend E. slope, 20 ft.to
57.10
60.10
62.80
69.00
           Gulch, course E. Ascend N. slope, 50 ft.to
          Spur ridge, brs.E. Descend S. slope, 15 ft.to canyon, course E. Ascend rocky point, 30 ft.to Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor.31 mile cor., marked
76.00
78.00
80.00
             on brass cap,
                                  1913 on S.rim,
                                  31 M Woof center,
                                  W M I R in W., and
                             P L in E.half; from which,
A pine, 14 ins. diam., brs.N.26½°E.,14 lks.dist., marked W M I R 31 M P L B T.
An oak, 16 ins. diam., brs.S.89¼°E., 65 lks.dist., marked W M I R 31 M P L B T.
A pine, 9 ins. in diam., brs.S.86½°W.,62 lks.dist., marked W M I R 31 M R T
                             dist., marked W M I R 31 M B T.
A pine, 4 ins. in diam., brs. N. 83 2 W., 91 1ks.
          dist., marked W M I R 31 M B T. The magnetic variation at this cor. is 12° 10 E.
          Land, rolling
          Soil, rocky, 4th rate.
          Timber, scattering pine, oak, juniper and walnut timber.
           Undergrowth, dense scrub oak.
          South, on the east bdy. of the White Mountain Indian Reser-
              vation.
          Through scattering timber and dense undergrowth. Ascend N.
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slope, 25 ft.to

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Resurvey of East bdy. of White Mountain ondSan Carlos Ind. Res.
Chains
             Rocky point, 60 ft.high; descend S.slope,40 ft.to Gulch, course E. Ascend NE. slope, 30 ft.to
  1.00
  4.00
             Spur ridge, brs.E. Descend S. slope, 20 ft.to Gulch, course E. Ascend NE. slope, 130 ft.to
  7.00
8.00
             Spur ridge, brs.E. Descend NE. slope, 255 ft.to Gulch, course E. Ascend NE. slope, 255 ft.to Spur ridge, bears E. Descend SE. slope, 400 ft. Leave timber, brs.E. and W.
12.00
16.20
26.50
             Leave undergrowth, brs.E.and W.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 312 mile cor., marked on
36.00
40.00
                   brass cap,
                                           1913 on S.rim, W M I R in W., and
             No other trees within limits; raise a mound of stone, 3 ft.base, 2 ft. high, west of cor. Pits impracticable.

Enter timber and undergrowth, brs.E. and W.
49.50
54.20
             Gulch, course E. Ascend N. slope, 130 ft. Trail, brs.SE. and NW.
54.30
61.80
             Rocky point, 30 ft.high. Descend SW. slope, 100 ft.
                                                              Thence along west slope.
64.00
70.00
74.00
             Descend SE slope.
            Low pass, E and W. Thence along ridge.

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 32 mile cor., marked on
80.00
               . brass cap,
                                         1913 on S.rim,
             1913 on S.rim,

32 M W. of center,

W M I R in W., and
P. L in E.half; from which,
An oak, 10 ins. in diam., brs. N. 2° E., 35 lks.
dist., marked W M I R 32 M P L B T.
A cedar, 9 ins. in diam., brs. S.22 2° E., 14
lks.dist., marked W M I R 32 M P L B T.
A cedar, 9 ins. diam., brs. S.46° W., 64 lks.
dist., marked W M I R 32 M B T.
An oak, 8 ins. in diam., brs. N.11 2° W., 34 lks.
dist., marked W M I R 32 M B T.
The magnetic variation at this cor. is 13° 37° E.—
Land, rolling and hilly.
             Land, rolling and hilly. Soil, rocky, 4th rate.
             Timber, scattering oak, juniper, pine and cedar. Undergrowth, dense scrub oak.
             Note: The sky was overcast at noon, making an observation for latimpossible.

Oct.30, 1913.
             Oct.31, 1913: At 8h.10m. a.m., l.m.t., I set off 33°27'N. on the latter; 14° ½ S. on the decl. arc, and determine a meridian with the solar at the reestablished
                    32 mile cor. on the east bdy. of the White Mountain
                   Indian Reservation, described above.
              Thence I run,
              South, on the East bdy. of the White Mountain Indian Res-
                   ervation.
              Through heavy timber and scattering undergrowth. Descend SW. slope. Descend 210 ft.to creek.
             Spur ridge, brs.SW. Descend S. slope.
Dry channel of West fork of Eagle Creek, 150 lks.wide,
  8.25
16.00
                   course SE.
              Draw, course NE. Ascend slight NW. slope, 45 ft.to
24.00
              Spur.ridge, brs.NW. Descend SE. slope, 40 ft.to
27.00
              Gulch, course E. Ascend 15 ft.to
57.75
39.00
              Spur ridge, brs.E. Descend 10 ft.
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28. Resurvey of East bdy of White Mountain or San Carlos Ind Res
 Chains.
           Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
40.00
                  the ground, for reestablished 322 mile cor., marked
                  on brass cap,
                                    1913 on S.rim,
                              W M I R in W., and 32½ M in E.half; from which, A pine, 7 ins. diam., brs.N.24½°E.,40 lks.dist., marked W M I R 32½ M B T.

A pine, 6 ins. in diam., brs.N.63½°W.,28 lks.
                                    dist., marked W M I R 32 M B Ta
40.05
           Cliff, 10 ft.high.
44.00
           Spur ridge, brs.NE.
                                            Ascend NE. slope.
50.00
           Wash, course NE.
56.50
60.00
            Thence along east slope.
           Descend SE. slope, 40 ft.to
           Canyon, course E. Ascend NE. slope, 185 ft.to
Spur ridge, brs.E. Descend SE. slope, 75 ft.to
Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins.in
65.00
76.00
80.00
                  the ground, for reestablished 33 mile core, marked on
                  brass cap,
                                    1913 on S.rim,
                                    33 M W. of center,
          33 M W. of center,
W M I R in W., and
P L in E.half; from which,
An oak, 8 ins. in diam., brs.N.51°E., 24 lks.
dist., marked W M I R 33 M P L B T.
A pine, 10 ins. in diam., brs.S.61½°E.,271 lks.
dist., marked W M I R 33 M P L B T.
A pine, 8 ins. in diam., brs.S.29½°W.,140 lks.
dist., marked W M I R 33 M B T.
A pine, 8 ins. in diam., brs.N.30°W.,60 lks.
dist., marked W M I R 33 M B T.
The magnetic variation at this cor. is 13° 35' E.
Land, rolling and hilly.
           Land, rolling and hilly. Soil, rocky, 4th rate.
           Timber, heavy pine, cedar and juniper. Undergrowth, scrub oak.
           Heavily timbered land, 80.00 chs.
           Note: Cloudy and raining at noon this day, rendering an
             .. observation for latitude impossible.
           South, on the East bdy. of the White Mountain Indian Res-
                ervation.
           Through scattering timber and undergrowth. Descend SE.
                slope, 45 ft.to.
 2.00
           Gulch, course SE. Ascend NE. slope, 20 ftto
 4.50
           Spur ridge, brs.E. Descend SE. slope, 15 ft.to
 7.00
           Gulch, course NE. Ascend NE. slope, 115 ft.to
          Thence along east slope.
Ridge, bra. E. and W. Descend SE. slope, 140 ft.to
Canyon, course E. Ascend NE. slope, 215 ft.
12.00
20.00
27.00
34.00
          Leave timber and undergrowth, brs. E. and W.
          Spur ridge, brs.E. Descend SE. slope, 140 ftto canyon. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 33½ mile cor., marked on
35.50
40.00
                brass cap,
                                   1913 on S.rim.,
                                   W M I R in W.,
                                   33章 M in E.half;
                and raise a mound of stone 3 ft.base, 2 ft.high, west of cor. Pits impracticable.
                                                                    Oct.31,1913.
          Nov.1, 1913: At 8h.20m. a.m., l.m.t., I set off 33°26'

No on the latearc; 14°20'S. on the declearc, and determine with the solar a meridian at this cor.
          Canyon, course E. Ascend NE. slope, 65 ft.
45.75
           Enterrtimber, brs.E. and W.
55.00
          Spur ridge, brs.E.; descend SW. slope, 25 ft.to
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BOOK -2768

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Resurvey of East bdy. of White Mountain or San Carlos Ind. Res.
Chains
               Ascend NW. slope, 45 ft.to.
56.00
               Spur ridge, brs.SW. Descend SE. slope, 180 ft. to
61.00
               Draw, course SW. Thence along west slope.

Draw, course W. Ascend NW. slope, 10 ft.to

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 34 mile cor., marked on
71.00
 79.00
80.00
                     brass cap,
                                                1913 on S. rim,
34 M W. of center,
                                               W M I R in W., and P L in E.half; from which,
                                      A cedar, 6 ins. in diam., brs.N.792°E.,76 lks. dist., marked W M I R 34 M P L B T.

A pine, 10 ins. in diam., brs.S.202°E.,83 lks. dist., marked W M I R 34 M P L B T.

A cedar, 10 ins. in diam., brs.S.462°W.,93 lks. dist., marked W M I R 34 M B T.

An oak, 6 ins. in diam., brs.N.742°W.,35 lks. dist., marked W M I R 34 M B T.

Ing. hilly and mountainous.
              Land, rolling, hilly and mountainous. Soil, rocky, 4th rate.
              Soil, rocky, 4th rate.
Timber, scattering oak, pine, cedar and juniper.
Undergrowth, scattering scrub oak.
Heavily timbered land, 68 chs.
               Mountainous land 54 chs.
               South, on the east bdy. of the White Mountain Indian Res-
                     ervation.
               Through scattering timber and undergrowth. Ascend NW. slope,
                   -36 ft.to
              Spur ridge, brs.W. Descend SW. slope, 231 ft.to Canyon, course SE. Ascend NE slope, 330 ft.to ridge.
  5.00
21.00
              mash, course E. Continue ascent.
26.00-
              Ridge, brs.SE. and NW. Descend SW. slope, 35 ft.to Canyon, course SE. Ascend NE. slope, 70 ft.to ridge. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 342 mile cor., marked
35.00
37.65
40.00
                       on brass cap,

1913 on S.rim,

W M I R in W., and

34\frac{1}{2} M in E.half; from which,

A pine, 5 ins. in diam., brs.S.42\frac{1}{2}°E.,37 lks.

dist., marked W M I R 34\frac{1}{2} M B T.
              A juniper, 10 ins. in diam., brs.S.62°W.,28 lks.dist., marked W M I R 34½ M B T.

Note: At this cor. Nov.1, 1913, I set off 14°24½ S.on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 33°25 N.
               Leave timber and undergrowth, brs.SE and SW.
Spur ridge, brs.SE. Descend slight SE. slope; descend 190
42.00
44.00
                     ft. to gulch.
              Spur ridge, brs.SE. Continue descent on SW.slope, to Gulch, course SE. Ascend NE. slope, 80 ft. to ridge. Enter scattering timber, brs.E. and W. Leave timber, brs.E. and W. Ridge, brs.E. and W. Descend SW. slope, 25 ft.to
60.00
68.50
76.00
 76.50
              Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reesablished 35 mile cor., marked on
80.00
                     brass cap,
                                               1913 on S. rim, :
35 M W. of center,
W M I R in W., and
P L in E. half;
                     and raise a mound of stone 3 ft base, 2 ft.high, N. of
                     cor.
                                    Pits impracticable.
               The magnetic variation at this cor. is 13°E.
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50 - Resurvey of East bdy of White Mountain or San Carlos Ind Res
           Land, rolling and hilly. Soil, rocky, 4th rate.
           Timber, scattering oak, cedar, pron, pine and juniper. Undergrowth, scattering scrub oak and locust.
           Heavily timbered land, 50 chs.
                                                                      Nov. 1, 1913.
           Nov.2, 1913: At 8h. 8m. a.m., l.m.t., I set off 33°24½°N. on the lat.arc; 14°39½°S. on the decl.arc; and determine a meridian with the solar at the reestablished 35 mile corner on the east bdy. of he White Mountain Indian Reservation, described above.
           Thence I run,
           South, on the east bdy. of the White Mountain Indian Res-
              prvation. No timber.
           Descend S. slope, 135 ft.to
Gulch, course E. Ascend NE slope, 40 ft.to ridge.
Enter scattering timber, brs.E. and W.
Leave timber, brs.E. and W.
Ridge, brs.E. and W. Descend S. slope, 60 ft.to
10.00
14.00
15.00
           Wash, course E. Ascend NE slope, 50 ft.to
Spur ridge, brs.E. Descend SE slope, 80 ft.to
22.00
28.00
           Draw, course E. Thence over level land.

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 35½ mile cor., marked
36.00
40.00
                on brass cap,
                                    1913 on S.rim,
                W M I R in W., and

35 M in E. half;
and raise a mound of stone, 3 ft.base, 2 ft.high, W. of corner. Pits impracticable.
           Guach, 50 lks.wide, 12 ft.deep, course SE.

Set an iron post, 3 ft.long, 3 ins. indiam., 24 ims. in
the ground, for reestablished 36 mile cor., marked
77.00
80.00
                  he ground, _
on brass cap,

1913 on S.rim,
36 M 'W. of center,
TR in W., and
                                    WMIRin W., and
                                    P L in E.half;
                and raise a mound of stone 3 ft.base,2 ft. high, north
                of cor. Pits impracticable.
           From this cor., a stone, 16x20x10 ins., marked G R A on
           W., GRE on E., and 73 on S.face, with a mound of stone on N., brs.S.64° 17 W., 20.48 chs.dist.

Wade Harris house brs.S.86°E., about 10 chs.dist.
           Land, rolling.
Soil, rocky, 4th rate.
           Timber, scattering oak and cedar.
           Undergrowth, mesquite.
           South, on the east bdy. of the White Mountain Indian Res-
                ervation.
            Over level land.
           NE. bank of gulch; descend S. slope, 40 ft.to Wash, 40 lks.wide, 3 ft. deep, course SE. Ascend S. slope,
  3.00
8.00
                70 ft.to
12.50
           South bank of gulch; thence along gently rolling east
                 slope.
            Old Indian ruins, rock foundation, brs. E.3 chs. dist. Thence
18.00
                over level land.
            Irrigation ditch, 1 ft. wide, course SW.
30.00
           Wash, course E. drains into Eagle Creek bottom.
32.20
33.00
            Wash, course E.
 33.50
            Irrigation ditch, course SW.
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Resurvey of East bdy White Mountain or San Carlos 'Ind. Res
Chains.
 35.60
            Wash, course E.
            3-strand wire fence, brs. NE. and SW. Enter cane patch. Set an iron post 3 ft.long, lin. in diam., 26 ins. in
                  the ground, for reestablished 362 mile cor., marked
                  on brass cap,
                                    1913 on S.rim,
W M I R in W., and
36 M in E.half;
                 and raise a mound of stone 3 ft. base, 2 ft. high, west
                                   Pits impracticable.
           3-strand wire fence, brs.SE and NW. Leave came patch. Descend west bank of Eagle Creek, 15 ft.to
 42.85
 50.00
            Thence along old channel of kreek.
One channel of Eagle Creek, course SW.
 52.00
56.25
            Main channel of Eagle Creek, 70 lks .wide, 3 ins. deep,
 63.40
                 course SW.; clear water.
            From this point, an iron post 3 ins. in diam., set in a
 65.94
                 mound of stone, marked
USFS Bdy. Post #2 on top,
                                    6 notches on E., W. and N. edges,
                                    Reserve on NE. and NW bevel, and T 1 N R 28 E sec.31 on NE., and T 1 N R 27 E sec.36 on NW.side, 1902 on S.bevel, P L on N., brs.E.115 lks.dist.
           Also from this point; an iron post 3 ins.diam.set in mound of stone, marked USFS Bdy.Post No.1 on top, Reserve in NE.quad.

bon: bevel, GG-TI-N, R7E Sec.36 on NE.side, &1902onS.PL onN.of
brass cap, brs. W.19.85 chs.dist. Note: See resurveyG.&S.R.Base
South banks of Eagle Creek.

Cline in Book "B."
            Old road and main trall, brs. NE. and SW.
 66.60
 67•55 ·
            Thence along slight west slope.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 37 mile cor., marked on
                 brass cap,
                                    1913 on S.rim,
37 M W.of center, W M I R in W., and
                P L on E-half;
and raise a mound of stone 3 ft.base, 2 ft. high, N. of
cor. Pits impracticable.
            A sycamore, 24 ins. in diam., brs.S.73 % w.,224 lks.dist., marked W M I R 37 M B T...
The magnetic variation at this cor. is 13° 20° E.
            Land, lavel and gently rolling.
Soil, 2nd, 3rd and 4th rate.
Timber, scattering oak, cottonwood and sycamore along
            Undergrowth, scattering mesquite.
            Note: The sky was overcast at noon, making an observa-
tion for latitude impossible.
                                                              Nov.2, 1913.
            Nov. 3, 1913: At 9h. 5m. a.m., l.m.t., I set off 33° 23' N. on the lat.arc; 15°00' S. on the decl.arc; and de-
                 termine a meridian with the solar at the reestablished
                 37 mile cor. on the East bdy. of the White Mountain Ind-
                 ian Reservation, described above.
            Thence I run,
            South, on the East bdy. of the White Mountain Indian Res-
                 ervation.
            Over level land.
            Descend from bench, 14 ft.to Eagle Creek. Old road and trail, brs.NW and SE.
   2.00
   2.85
            Main channel of Eagle Creek, 50 lks.wide wide, 3 ins. in-
deep, clear water, course SE.
Fence brs.SE. and NW. Enter corn field.
Row of apple trees, brs.SE. and NW.
   8.45
 22.35
30.88
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Row of apple trees, brs.SE. and NW.

31.30

Leave field. Ascend

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32. Resurvey of East bdy of White Mountain pr San Carlos Ind Res.
Chains
               NE slope, 55 ft. to ridge.
31.74
32.80
36.00
          Small ditch, course SE and NW.
          Fence brs. SE. and NW.
          Spur ridge, brs.E. Descend slight SE' slope, 25 ft. Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 37 mile cor., marked
40.00
               on brass cap,
                                 1913 on S.rin,
W M I R in W.,
                                 37호 M in E.half;
               and raise a mound of stone 3 ft. base, 2 ft. high, W. of
          cor. Pits impracticable.

Davis' Ranch House brs.S.62°E., about 12 chs.dist.

Foot of descent. Thence over level land; wire fence brs.

NE. and SW. Enter Davis' pasture.
45.20
          Wire fence brs. SE. and NW. Leave pasture.

Gulch, course E. Ascend NE. slope, 75 ft. to

End of ascent. Thence along east slope.

Spur ridge, brs. SE. Descend S. slope, 35 ft. to gulch.
50.70
51.50
60.00
66.00
68.40
          Old road, brs.SE. and NW.
          Gulch, course E. Ascend NE. slope, 20 ft.to
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
78.00
80.00
              the ground, for reestablished 38 mile cor., marked on
               brass cap,
                                 1913 on S'rim
                                 38 M W/ of center,
                                 W M I R in W., and
                                 P L in E.half; from which,
                            An oak, 20 ins. in diam., brs.N.62°E., 120 lks.dist., marked W M I R 38 M P L B T.

A juniper, 6 ins. in diam., brs.N.352°W., 79 lks.dist., marked W M I R 38 M B T.
          No other trees within limits. Raise mound of stone, 3 ft. base, 2 ft. high, north of cor.
          Pits impracticable.
          Magnetic variation at this cor., 13°156E.
          Land, level and rolling.
Soil, 2nd,3rd and 4th rate.
          Timber, cottonwood, oak, and sycamore along creek.
          No undergrowth.
          South on the east bdy. of the White Mountain Indian Reser-
               vation.
                              Ascend NE slope, 30 ft.to
          No timber.
          Thence over level land.
 4.00
          Descend SW. slope, 25 ft.to
Gulch, course SE. Ascend NE. slope, 30 ft.to
18.00
19.60
          Thence over level land.
24.00
          School house brs. E. about 14 chs.dist.
26.00
          Descend slight SE. slope.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 38 mile cor., marked
30.00
40.00
              on brass cap,
                                 1913 on S.rim,;
W M I R in W., and
               382 M, in E. half;
and raise a mound of stone 3 ft. base, 2 ft. high, west
               of corner. Pits impracticable.
60.00
          Foot of descent; thence over level land.
          Small draw, course SE.
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 39 mile cor., marked on
71.30
80.00
               brass cap,
                                 .1913 on S.rim,
                                  39 M W of center,
                                  W M I R in W., and
                                  P L in E.half;
             and raise a mound of stone 3 ft. base, 2 ft. high, N.
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Resurvey of East bdy. White Mountaon or San Warlos Indian Res.
Chains
          of cor. Pits impracticable.

Note: At this cor. Nov.3, 1913, I set off 15° 2½ S.on the decl.arc, and at apparent noon, I observe the sun on the meridian; the resulting late is 33° 21 N.
          Land, gently rolling and level. Soil, rocky, 4th rate.
           Timber, none,
          No undergrowth.
           South, on the East bdy. of the White Mountain Indian Res-
               ervation.
           Over level land; no timber or undergrowth.
9.30
25.80
          Road brs. NE. and SE.
          NW. cor. of 4-strand wire fence, brs. E. and S.; is 36 lks.
               E. of line.
          Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 39\frac{1}{2} mile cor., marked
40.00
               on brass cap,

1913 on S.rim,

W M I R in W.,

in E.hali
              39 M in E.half;
and raise a mound of stone, 3 ft. base, 2 ft.high, west
of cor. Pits impracticable.
          Road brs.SE. and NW. SW.cor.of fence brs.E.20 lks.dist. Descend SW. slope, 15 ft.to
Thence over level land.
Road brs.SE and NW.
53•35
56•00
57.00
62.00
          N. bank of Willow Creek. Descend 18 ft. into channel. En-
67.75
               ter sycamore and cottonwood timber.
          75.00
76.00
          Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished 40 mile cor., marked on
80.00
               brass cap,
                                1913 on S.rim,
40 M W. of center,
                                 W M I R in W., and
                                 P L in E.half; from which,
                            An ash, 18 ins. in diam., brs.N.16°E., 205
lks.dist., marked W M I R 28 M P L B T.
A sycamore, 40 ins. in diam., brs.S.19°E.,249
lks.dist., marked W M I R 28 M P L B T.
                            An ash, 16 ins. in diam., brs.S.662 W.,147 lks. dist., marked W M I R 40 M B T.
          A sycamore, 20 ins. diam., brs.N.6020w., 99 lks.dist., marked W M I R 40 M B T.

The magnetic variation at this corner is 1320 E.
          Land, level and gently rolling.
          Soil, rocky, 4th rate.
          No timber, except in Willow Creek-bottom -- sycamore and
          No undergrowth.
          South, on the east bdy. of the White Mountain Indian Res-
               ervaton.
          Along Willow Creek bottom, through scattering timber.
6.60
          Old road, brs.NE. and SW.
23.30
24.25
          Main channel of Eagle Creek, course SW.
          Channel of Eagle Creek; course W.
          Channel of Eagle Creek, course SW.
Trail, brs. NE. and SW.
27.00
32.00
          Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for witness cor. to reestablished 40 mile cor., marked on brass cap,
37-30
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Resurvey of East bdy of White Mountain or San Carlos Ind Res.
Chains
                                    1913 on S.rim,
                                   W C.40\frac{1}{2} M. in N.half;
                              W M I R in W., and
P L in E.half; from which,
An ash, 26 ins. in diam., brs.S.71°E.,120 lks.
dist., marked W C W M I R 40 M B T.
An ash,28 ins. diam., brs.S.53°W., 13 lks.
dist., marked W C W M I R 40 M B T.
           Enter channel of Eagle Creek.

Point for reestablished 40 mile cor. falls in Eagle
37.65 40.00
                Creek, where it is impracticable to set post.
44.00
           Wire fence brs. SE. and NW.
           Leave Eagle Creek, course SW. Ascend steep bluff, 75 ft. Ascend NW. slope, 40 ft.to
Set an iron post 3 ft.lomg, 3 ins. in diam., 24 ins. in the ground, for reestablished 41 mile cor., marked
67.00
76.00
80.00
                the ground,
on brass cap,
1913 on S.rim,
41 M W. of center,
T R in W., an
                                     W M I R in W., and
                                    P L in E.half; from which,
           A cedar, 8 ins. in diam., brs.N. 60°E.,84 lks.

dist., marked W M LR 41 M.P L B T.

No other trees within limits; raise a mound of stone 3

ft.base, 2 ft.high, north of cor. Pits impracticable.
           A stone 24x16x6 ins. in a mound of stone, marked © 5 on W., brs.N.75°E., 64 lks.dist., from this cor., Magnetic variation at this corner is 11° 28° E.
           Land, level. Soil, rocky, 4th rate.
           Timber, scattering cottonwood, sycamors and ash along
                creeks only.
           No undergrowth.
                                                                        Nov.3, 1913.
           Nov.4, 1913: At 7h. 25m. a.m., l.m.t. I set off3 3°19½'N. on the lat.arc; 15°16'S. on the decl.arc; and deter-
                mine a meridian with the solar at the reestablished
                41 mile cor. on the East bdy. of the White Mountain Indian Reservation, described above.
           Thence I run,
           South, on the East bdy. of the White Mountain Indian Res-
                ervation.
           Ascend NW. slope, 45 ft. No timber.
          Ascend NE. slope.
End of ascent. Top of hill, covered with Indian ruins.
 2.00
  6.00
7.00 Stone stockade, brs. E. and W. Built by Indians.
           Descend south slope, 110 ft.to
Low pass, brs.E.and W. Ascend NE. slope.
Along east slope. Rocky point 1 chain west.
Ascend NE. slope, 80 ft.to
14.00
20.00
26.00
           Spur ridge, brs.E. Descend SW. slope,, 175 ft.to Eagle
33.50
                Creek.
           Set an iron post, 3 ft.long, 1 in. in-diam., 26 ins. in the ground, for reestablished 412 mile cor., marked
40.00
                on brass cap,

1913 on S.rim,
                                    WMIR in W. and
                  412 M in E.half; and raise a mound of stone 3 ft. base, 2 ft. high, west
                of cor. Pitsaimpracticable.
42.83
           4-strand wire fence, brs. NE. and SW.
52.00
           Eagle Creek Canyon.
           Eagle Creek, 60 lks.wide, I ft. deep, course SE.
57.13
58.00
           Ascend NE. slope, 165 ft.to
           Spur ridge, brs.E. Descend SE slope, 30 ft.to
Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins.in
the ground, for reestablished 42 mile cor., marked
70.00
80.00
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on brass cap,

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35. Resurvey of East bdy. of White Mountain or San Carlos Ind. Res.
                                                                                                                 <u>.35.</u>
                                     1913 on S.rim,
                                     42 M WXof center,
                                     W M I R in W., and
                                     P L in E.half;
                and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.
           Magnetic variation at this cor. is 12° 18' E.
           Land, level and rolling.
           Soil, rocky, 4th rate.
           Timber, sycamore and cottonwood along creek.
           No tundergrowth.
                 South, on the East bdy. of the White Mountain Indian Res-
                 ervation.
           No timber. Descend south slope, 115 ft.to
           Canyon, course E. Ascend NE. slope, 35 ft.to
 8.00
           Rocky spur, brs. NE. Thence along broken east slope of creek bank.
11.00
                                                      Ascend rolling NE slope, 40 ft.t
           Trail, brs. NE and SW.
22.80 1
                to
         Leave creek bank; descend SE. slope, 15 ft. to Gukch, course NE. Ascend N. slope, 25 ft. to ridge. Cook's ranch house, brs. E. about 18 chs. dist. Ridge, brs. E. and W. Descend slight S. slope, to wash. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground for reestab. 42 mile cor., marked om brass cap,
29.00
31.30
35.00
36.00
40.Q0
                                     1913 on S.rim,
W M I R in W., an
42 M in E.half;
                                                              and
                 and raise a mound of stone, 3 ft, base, 2 ft. high, W. of
           corner. Pits impracticable.

Wash, course E. Ascend NE slope, 30 ft.to

North bank of Box canyon, 100 ft. deep, course S.15° W.;

Eagle Creek in bottom.
52.10
61.16
           It being impossible to chain across this canyon, I take
                 stadia measurement to rod on line on the opposite bank
           Rod reading, 9.440 ft. Ratio, 1 ft. = 2.00 chs. Focal constant, 1.025 ft. Level. The dist.ont.line.td.erod is therefore, 9.440 x 2 plus .016 = 18.90 chs., which added to 61.16 chs. = 80.06 chs. rod point, from which, I measure back on line, .06 chs. to
           Where I set an iron post, 3 ft. long, 3 ins. in diam.,
24 ins. in the ground for reestablished 43 mile cor.,
80.00
                marked on brass cap,

1913 on S.rim,

43 M W.of center,
                              W M I R in W., and
P L in E.half; from which,
An oak, 16 ins. in diam., brs.N.7230E.,78 lks.
dist., marked W M I R 43 M P L B T.
           A juniper, 14 ins. in diam., brs.S.51°E., 100
lks.dist., marked W M I R 43 M P I.B T.

No other trees within limits; raise a mound of stone 3 ft.
base, 3 ft. high, north of cor. Pits impracticable.

Mag. variation at this corner is 13°55°E.
           Land, rolling and hilly.
Soil, rocky, 4th rate.
Timber, only in canyon on banks of Eagle Creek; cotton-
wood and sycamore.
           No undergrowth.
            South, on the East bdy. of the White Mountain Indian
                Reservation.
           Ascend NW. slope, 15 ft.to
Thence along slight west slope.
```

2.00

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36. Resurvey of East bdy. of White Mountain or San Carlos Ind. Res.
Chains
 4.75
           Wash, course W. Ascend slight NW. slope.
           North bank of Canyon, 100 ft. deep, course W. Enter timber, brs. E. and W. Dry channel lava formation. Impossible to chain across; therefore, return to a point on line
25.50
                at
23.91
           Where I take stadia measurement to rod on line on opposite
           side of canyon. Rod reading, 4.028 ft. Ratio, 1 ft.=
2 chs. Focal constant, 1.025 ft. Level. The dist.on
line to rod is therefore, 4.028 x 2 plus .016 = 8.07
chs., which added to 23.91 chs. = 31.98 chs. rod point
from which I measure north, 1.23 chs. to
South bank of canyon. Ascend NW. slope.
30.75
31.98
32.00
40.00
           Stadia rod point.
           Leave timber, brs.E. and W.
           Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 43 mile cor., marked on
                brass cap,
                                    1913 on S.rim,
W M I R in W., and
43½ M in E.half;
                and raise a mound of stone 3 ft. base, 2 ft.high, W. of
                cor. Pits impracticable.
           Draw, course NW. Ascend slight N. slope, to Thence over level land.
Descend SW. slope, 20 ft.to
Gulch, course NW. Ascend NE. slope, 20 ft.to
43.00
52.00
66.00
           Thence over level land, to
68.30
           Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 44 mile cor., marked on
80.00^
                brass cap,
                                    1913 on S.rim,
44 M We of center,
                                    W M I R in W., and
                P L in E.half;
and raise a mound of stone, 3 ft. base, 2 ft. high, N.
             of cor. Pits impracticable.
           Magnetic variation at this corner, 13°28 E.
           Land, level and rolling.
           Soil, rocky, 4th rate.
Timber, oak, ash, cottonwood and sycamore in canyons.
           No undergrowth.
                      The sky was overcast at noon, making an observa-
                tion for lateimpossible.
                                                                Nov.4, 1913.
           Nov.5, 1913: At 7h. 55m. a.m., l.m.t., I set off 33°17'
N. on the lat.arc; 15°35'S. on the decl.arc; and determine a meridian with the solar at the reestablished
                  44 mile cor. on the east bdy of the White Mountain In-
                  dian Reservation, described above.
           Thence I run,
           South, on the East bdy. of the White Mountain Indian Reser-
                  vation.
           Over level land; no timber.
           Descend SE. slope. Descend 275 ft. to bottom of canyon. Spur ridge, brs.E. Descend S. slope. Ledge rock, brs.Eand W. N. bank of canyon.
 3.00
11.00
12.00
           Bottom of canyon, course W.
17.90
           Enter timber, brs. E. and W.
           Ascend N. slope, 400 ft.to ridge.
19.00
           Leave timber, brs. E. and W.
Ridge, brs. W. Descend S. slope, 75 ft. to canyon.
Enter scrub oak undergrowth, brs. E. and W.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 44 mile cor., marked on brass
32.00
34.00
38.00
40.00
                  cap,
                                    1913 on S. rim,
                                    W M I R in W., and
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Resurvey of East. bdy. of White Mountain or San Carlos Ind. Res
Chains
                  442 M in E.half; and raise a mound of stone, 3 ft. base, 2 ft. high, W.
                  of cor. Pits impracticable.
42.50
            Canyon, course NW. Ascend NW. slope, 135 ft.
            Leave undergrowth, brs. E. and W.
49.00
49.75
            Ridge, brs.E. and W. Descend SW. slope, 70 ft.to
            Gulch, course W. Ascend NW. slope, 55 ft.to

Spur ridge, brs.W. Descend SW. slope, 35 ft.to

Gulch, course NW. Ascend N. slope, 100 ft.to

Ridge, brs.E. and W. Descend SE. slope, 15 ft.to

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in

the ground, for reestablished 45 mile core, marked on

brass cap.
57.00
62.00
64.10
74.00
80.00
                 brass cap,
                                       1913 on Sorim,
                                       45 M W. of center,
                 W M I R in W., and
P L in E.half;
and raise a mound of stone 3 ft.base, 2 ft. high, north
                  of cor. Pits impracticable.
            Magnetic variation at this cor. is 13°15 E.
            Land, rolling and hilly. Soil, rocky, 4th rate.
            Timber, cottonwood, ash and sycamore in canyons.
            Undergrowth, none.
           South, on east bdy. of the White Mountain Indian Reserva-
            No timber or undergrowth. Descend SE' slope, 125 ft.to Canyon, course W. Ascend NE: slope. Ascend 215 ft.to
10.00
                 ridge.
            Ledge brs.SE. and NW. Ascend NW. slope, to Ridge, brs.E. and W. Descend SW. slope, 145 ft.to gulch. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 45½ mile cor., marked
16.00
33.00
40.00
                the ground,
on brass cap,
1913 on S.rim,
W M I R in W.,
                                                                 and
                 45 M in E.half; and raise a mound of stone, 3 ft. base, 2 ft. high, W.
                  of cor. Pits impracticable.
            Note: At this cor, Nov.5, 1913, I set off 15°39 s.on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting late is 33° 16°N.
           on the meridian; the resulting late is 33° 16 N.
Gulch, course W. Ascend N. slope, 170 ft. to
Ridge, brs. E. and W. Descend S. slope, 370 ft. to canyon.
Enter scattering timber, brs. East and West.
Canyon, course W. Ascend N. slope, of Table Mountain, 100
43.80
58.00
70.00
76.00
                ft.to
            Set an iron post 3 ft.lpng, 3 ins. in diam., 24 ins. in the ground, for reestablished 46 mile cor., marked on
80.00
                 brass cap,
                                       1913 on S.rim,
                                       46 M W of center,
                                       W M I R in W., and P L in E.half; from which,
                                 A cedar, 20 ins. in diam., brs.S.50°E.,167 lks.dist., marked W M I R 46 M P L B T.
            No other trees within limits; raise a mound of stone, 3 ft.base, 2 ft. high, north of cor. Pits impracticable. Magnetic variation at this cor. is 13° 5' E.
            Land, rolling and hilly. Soil, very rocky, 4th rate.
            No timber or undergrowth, except in canyons.
            South, on the East bdy. of the White Mountain Indian Res-
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ervation.

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38. Resurvey of East bdy. White Mountain or San-Carlos Ind. Res.
Chains
              Ascend N. slope. Ascend 700 ft. to top of Table Mountain.
              Through scattering timber and undergrowth.
  8.00
              Ascend NW. slope.
             Rock ledge, 40 ft.high, brs.E.and W.
Ledge brs. NE. and SW., 40 ft.high.
A dead cedar, 24 ins. in diam., on line.
23.45
25.00
33.70
40.00
             On top of Table Mountain; set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 46 mile cor., marked on brass cap, 1913 on S. rim,

W M I R in W., and
                                     46 m in E.half; from which,
A cedar, 10 ins. in diam., brs.S.10°E., 88
lks.dist., marked W M I R 46 M P L B T.
                                      A cedar, 14 ins. in diam., brs.5.36°W., 240 lks. dist., marked W M I R 462 M B T.
             Ledge, brs. NE and SW. Descend SE slope of Table Moun-
41.00
             tain, 700 ft.

Ledge, brs. NE and SW. Enter mesquite undergrowth, brs. NE and SW.
45.00
              Wash, course E. Continue descent.
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 47 mile cor., marked
 63.00
80.00
                    on brass cap,
                                          1913 on S.rim,
47 M Woof center,
                                        W M I R in W., and P L in E.half; from which, cedar, 14ins. in diam., brs.S.632°E.,46 lks.dist., marked W M I R 47 M P L B T.
             No other trees within limits. Raise a mound of stone, 3 ft.base, 2 ft.high; north of cor. Pits impracticable. Magnetic variation at this cor. is 11°52'E.

Liand, mountainous and hilly.

Soil, very rocky, 4th rate.
              Timber, scattering cedar. Undergrowth, dense scrub oak.
                                                                                 Nov.5, 1913.
             Nov. 6, 1913: At 8h. 54m. a.m., 1.m.t., I set off 33°14'N. on the lat.arc; 15° 55'S. on the decl.arc; and determine a meridian with the solar at the reestablished 47
                    mile core on the East bdy. of the White Mountain Indian
                    Reservation, described above.
              Thence I run,
              South, on the East bdy. of the White Mountain Indian Res-
                    ervation.
              Through scattering timber and dense undergrowth. Desc SE. slope, 90 ft.to
Gulch, course SW., foot of Table Mountain. Ascend NW. slope, 160 ft.to
14.75
             Ridge, brs. E. and W. Descend SE slope, 130 ft. to draw. Set an iron post 3 ft.long.l in. in diam., 26 ins. in the ground, for reestablished 47 mile cor., marked on
29.00
40.00
                    brass cap,
                                           1913 on S.rim,
                                            WMIRin.W.,
                                                                        and
                                     47½ M in E.half; from which,
A cedar, 10 ins. in diam., brs.N.78½ E.,152
lks.dist., marked W M I R 47½ M P L B T.
             pine, 7 ins. in diam., brs.S.1420w.,172
lks.dist, marked W.M. I. R. 472 M.B. T.

Draw, course E. Ascend NE. slope, 40 ft.to
Spur ridge, brs.E. Descend SE. slope, 135 ft.to
Gulch, course SE. Ascend NE. slope, 15 ft.to
Spur ridge, brs.SE. Descend SE. slope, 45 ft.to
Gulch, course W. Ascend N. slope, 180 ft.to
41.50
45.00
-51-70
53.00
58.00
                                               Ascend N. slope, 180 ft.to
              Gulch, course W.
              Point of conical hill, 1 chain W. Descend SE.slope. Descend 180 ft.
65.00
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Resurvey of East bdy. White Mountain or San Carlos Ind. Res. 39.
Chains.
             Gulch, course SW. Descend SW. slope, to
72.00
             Gulch, course W.; ascend NE. slope, 55 ft.to
Set an iron post, 3 ft.long, 3 ins. In diam., 24 ins. in
the ground, for reestablished 48 mile cor., marked on
76,25
80.00
                   brass cap,
                                           1913 on S.rim,
                                           48 M W. of center,
                                           W M I R in W., and
                                   P L in E.half; from which,
A cedar limb, 8 ins. in diam., brs. N.84°E.,166
lks.dist., marked W M I R 48 M P L B T.
             A cedar 16 ins. in diam., brs.S.42°E., 290
lks.dist., marked W M I R 48 M P L B T.
A cedar, limb, 5 ins. in diam., brs.S.11½°W.,
172 lks.dist., marked W M I R 48 M B T.
A cedar, 20 ins. in diam., brs.N.82°W.,102 lks.
dist., marked W MIR 48 MB T.

Mag. variation at this cor. is 13° 15 E.

Land. hilly.
             Land, hilly.
Soil, rocky, 4th rate.
Timber, sdattering cedar and pinon.
             Undergrowth, dense scrub oak and mesquite.
             South, on the East bdy. of the White Mountain Indian Reser-
            Through scattering timber and dense undergrowth. Ascend NE. slope, 70 ft.to
Ridge, brs.E. and W. Descend SE. slope, 50 ft.to
Gulch, course SE. Ascend NE. slope, 50 ft.
Point of conical hill, brs.W.75 lks.dist.
Descend SE. slope, 200 ft.to
Canyon, course W. Ascend NW. slope, 245 ft.to ridge.
Wash. course W. Ascend NW. slope, to
                   vation.
  4.00
9.50
11.00
21.00
21.00
32.00
34.00
             Wash, course W. Ascend NW. slope, to
Spur ridge, brs.E. Descend SW. slope, 25 ft.to
37.00
40.00
              Gulch, course W. Ascend NW. slope, 135 ft.
             Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 48 M cor., marked on
                brass cap,
                                           1913 on S.rim,
                                            W MIR in W., and
                                           48 M in E.half; from which,
             A cedar, 12 ins. in diam., brs.s.542°E.,91
lks.dist., marked W M I R 48½ M P L B T.
A cedar limb, 5 ins. in diam., brs.west 63
lks.dist., marked W M I R 48½ M B T.

Note: At this cor., Nov.6, 1913; I set off 15°57½ S.on
             the decleare; and at apparent noon, I observe the sun on the meridian; the resulting late is 33° 13 N.

Draw, course NW. Ascend NE. slope, to Ridge, brs. E. and W. Descend S. slope, 295 ft. to Head of canyon, course NW. Ascend NW. slope, 35 ft. to
44.00
52.00
65.00
              Ridge, brs. E. and W. Descend SE' slope, 200 ft. to canyon.
69.00
              Precipice, 20 ft.high, brs. E. and W.
72.50
78.00
             Canyon, course E. Thence along east slope.

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 349 mile cor., marked
80.00
                      on brass cap,

1913 on S.rim,

49 M W. of center,
                                            W M I R in W., and
                                            P L in E.half;
                    and raise a mound of stone 3 ft. base, 2 ft. high, N. of
                  cor. Pits impracticable.
             Mag. variation at this cor. is 12° 45° E.
              Land, mountainous and hilly. Soil, very rocky,4th rate. Timber; scattering oak and pine:
              Undergrowth, dense scrub oak and mesquite.
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Resurvey of East bdy. White Mountain or San Carlos Ind. Res.
Chains
               South, on the East bdy. of the White Mountain Indian Res-
                      ervation.
               Through scattering timber and undergrowth. Descend SE.
                      slape, 75 ft.to
                                                        Ascend NE. slope, 160 ft.to
  4.25
               Canyon, course E.
               Spur ridge, brs.E. Descend SE. slope, 50 ft.to Canyon, course E. Ascend NE. slope, 80 ft. Rock cliff, 20 ft.high, 5 lks.west of line. Thence along
21.00
25.00
35.60
               east slope of bluff.

Cliff, 20 ft. high, brs.NE. and SW.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 49½ mile cor., marked
38.50
40.00
               on brass cap,

1913 on S.rim,

W M I R in W., and

49½ M in E.half;

and raise a mound of stone, 3 ft. base, 2 ft. high, W.

of core Pits impravticable.

Rocky cliff, 50 ft. high, 30 lks. NW. of core

Descend SE. slope. Descend 225 ft. to canyon.

Descend S. slope.
                Descend S. slope.
48.00
               Head of draw, course W. Continue descent.

Low ridge, brs. E. and W. Descend SE. Shope.

Canyon, course E. Ascend NE. slope, 75 ft.to

Spur ridge, brs. E. Descend SE. slope, 100 ft.to

Canyon, course SW. Descend in canyon.
56.00
57.00
60.50
63.50
69.50
72.50
                Leave canyon; ascend broken NW. slope, 215 ft.to ridge.
                Cliff, 50 ft.high, brs. NE. and SW. South bank of canyon. Ascend broken NW. slope, to
73.75
                Spur ridge, brs.W. Continue along west slope to
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 50 mile cor., marked on
 77.60
80.00
                       brass cap,
                                                  1913 on S:rim,
50 M W. of center,
                                         W M I R in W., and
P L in E.half; from which,
A pine, 12 ins. in diam., brs. N. 462 E., 239
lks.dist., marked W M I R 50 M P L B T.
                Acedar limb, 6 ins. in diam., brs.S.48°E.,67 lks.dist., marked W M I R 50 M P L B T.

A pine, 10 ins. in diam., brs.S.26°W.,4 lks.

dist., marked W M I R 50 M B T

An oak,12 ins. in diam., brs.N.9½°W., 46 lks.

dist., marked W M I R 50 M B T.

Magnetic variation at this cor. is 13°12°E.

Land. mountainous and hilly.
                Land, mountainous and hilly.
Soil, rocky, 4th rate.
Timber, scattering cedar, oak and pinon.
                Undergrowth, scattering scrub oak.
                                                                                                      Nov.6, 1913.
                Nov.7, 1913: At 8h. 56m. a.m., l.m.t., I set off 33°11½'N. on the lat.arc; 16°13'S. on the decl.arc; and determine a meridian with the solar at the reestablished 50 mile cor. on the East bdy. of the White Mountain
                       Indian Reservation, described above.
                 Thence I run,
                 South, on the east bdy. of the White Mountain Indian Res-
                 ervation, described above.

Ascend broken NW. slope, 25 ft., through scattering tim-
                 Point of rock, 8 lks.west of line.
   1.63
                North edge of canyon, with perpendicular sides, across which I cannot chain; therefore, I take stadia hease urement to rod on opposite side. Rod reading, 4.813 ft. Ratio, 1 ft.= 2 chs. Focal constant, 1.025 ft. Vertical angle plus 13° 13°. The distance on line
   2.19
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Resurvey of East bdy of White Mountain or San Carlos Ind Res.
Chains
             to rod is therefore, 4.813 x 2 x .9478 plus .016 = 9.14 chs., which added to 2.19 chs.=
Stadia rod point on cliff, 40 ft.high,brs.E.and W. Descend south slope, 200 ft.to canyon.
Foot of cliff; continue descent.
Wash, course SW. Thence along broken west slope.
Gulch, course W. Continue descent.
Rocky point, brs.W. 15 lks.dist. Descend broken SW.slope.
11.33
12.00
17.00
21.00
              Rocky point, brs.W. 15 lks.dist. Descend broken SW.slope. Canyon, 107 lks.wide, 25 ft. deep. Ascend NE. slope; ascend 160 ft.to ridge.
24.50
31.50
              Bottom of cliff, 40 ft.high.
Set an iron post, 3 ft.lomg, 1 in. in diam., 26 ins. in the ground, for reestablished 50 mile cor., marked on
39.00
40.00
                     brass cap,
                                               1913 on S.rim.,
                                              W M I R in W., and
                                      50 M in E.half; from which,
A cedar, 6 ins.in diam., brs. N. 80 20 E., 31 lks.
dist., marked W M I R 50 M P L B T.
A pine, 14 ins. in diam., brs. S. 44 W., 79 lks.
                                              dist., marked W M I R 50 M BT.
              Ascend N.slope, to
                                                         Descend SE. slope, 430 ft. to Eagle
43.50 Spur ridge, brs.W.
                     Creek.
46.00
               Precipice, 20 ft.deep, brs. NE. and SW.
               Top of precipice, 60 ft.deep; continue to descend SE.
59.25
                     slope.
               Top of precipice, 30 ft.deep.
Top of precipice, brs.E. and W., 150 ft.to bottom. Eagle
60.35 66.98
                    creek at bottom, about 60 lks.wide, clear water, course E. Impossible to chain across canyon; therefore, from this point I take stadia measurement to rod on
                     line on south edge of canyon. Rod reading, 3.583 ft. Ratio, 1 ft. 2 chs. Focal constant, 1.025 ft. Level.
              The dist. on line to rod is therefore, 3.583 x 2 plus .016 = 7.18 chs., which added to 66.98 chs. = Stadia rod point at top of cliff on S edge of Eagle Creek. Canyon, brs.E. and W.
74.16
              Ascend NE slope, 30 ft.

Spur ridge, brs.E. Descend SE slope, 20 ft.to

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in

the ground, for reestablished 51 mile cor., marked on
76.25
78.50
80.00
                       brass cap,
                                               1913 on S.rim,
                                               51 M W. of center,
                                        W M I R in W., and
P L in E.half; from which,
A cedar, 22 ins. diam., brs.S.612°E.,231 lks.
dist., marked W M I R 51 M P L B T.
              No other trees with limits. Raise a mound of stone, 3
              ft.base, 2 ft. high, north of cor. Pits impracticable.
Magnetic variation at this corner is 12° 5 E.
Land, mountainous and hilly.
Soil, very rocky, 4th rate.
              Timber, heavy sycamore, ash and oak along creek. Undergrowth, scattering scrub oak and mesquite.
              South, on the east bdy. of the White Mountain Indian Res-
                     ervation.
               Through scattering timber and undergrowth. Descend SE.
                       slope, 55 ft.to
  4.00
              Thence along east slope.
              Instrument point for stadia measurement.

Top of bliff, 75 ft.high, brs.E. and W. Discontinue chaining; return to 7.92 ch. station and take stadia measurement across Eagle Creek Canyon. Rod reading, 1.430 ft. Ratio, 1 ft. 2 chs. Focal constant, 1.025 ft.

Angle of depression - 3° 20'. The distance to rod is therefore, 1.430 x 2 x .9966 plus .016 = 2.87 chs.,
  7.92
8.29
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42-Resurvey of East-bdy-White Mountain or San Carlos
 Chains.
               which added to 7.92 chs. = 10.79 chs.rod point (Approx.) Eagle Creek, 60 lks.wide, 18 ins. deep, course E. Stadia rod point on top of cliff, 85 ft.high,brs.E.and W.
 10.00
10.79
                                                                                               Janu.7, 1913.
                     off 33°10½'W. on the lat.arc; 16°29½'S. on the decl.arc; and determine a meridian with the solar.
               Nov.8,1913:
              Ascend NW. slope, 240 ft.to ridge.
Low ledge, brs. NE. and SW.
13.00
24.00
               Rocky ridge, brs. E and W. Descend SW. slope, 185 ft. to
                     wash.
25.90
30.00
               Ledge, 10 ft.to bottom, brs.E. and W. Wash, course E. Ascend NE slope, 15 ft.
              Spur ridge, brs.E. Descend S. slope, 110 ft. to Eagle Creek. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 512 mile cor., marked on
32.00
40.00
                     brass cap,
                                              1913 on S.rim,
W M I R in W., and
51 M inE.half, from which,
              A mesquite, 6 ins. in diam., brs.N.63\(\frac{2}{3}\) E., 125
lks.dist., marked W M I R 51\(\frac{1}{2}\) M P L B T
A mesquite, 5 ins. in diam., brs.N.43\(\frac{1}{2}\)W., 216
lks.dist., marked W M I R 51\(\frac{1}{2}\) M B T.

Top of precipice, sloping into Eagle Creek.

Eagle Creek, 75 lks.wide, 3 ins. deep. course SE.
Enter timber, brs.SE and NW. in Eagle Creek Canyon.
43.00
44.50
46.00
51.94
               As it is impossible to chain measurement on line over cliff
                     south of Eagle Creek, I therefore, set instrument over this point on line, and take stadia measurement to rod
              on line on top of cliff. Rod reading, 1.999 ft. Ratio, 1 ft. = 2 chs. over this point on line Focal constant, 1.025 ft. Vertical angle, plus 23°40°. The distance on line to rod is therefore, 1.999 x 2 x .0389 plus .016 = 3.37 chs. Which added to 51.94 chs. = 55.31 chs. Rod point. The topography in this dist. is given at approx. distances. as follows:
                     approx. distances, as follows:
               Bend of Eagle Creek from NE. to SE. Leave timber, brs. NE.
53.30
               Foot of cliff; ascend precipitously.
54.50
55•31·
               Stadia rod point on top of cliff, 100 ft. above Eagle
                     Creek.
54.00
               Thence along broken east slope.
57.50
58.60
               Wash; course E.; ascend.
              Rock spur ridge, brs.E.
                                                                       Descend slight SE slope.
66.75
              Precipice, brs. E. and W. North bank of dry canyon; descend
                     south slope, 65 ft.to
68.00
              Foot of descent. Enter heavy timber, brs. E. and W.
              Main gulch, course E.

Foot of cliff, 80 ft.high. Leave timber, brs.E. and W.

Top of cliff. Ascend rocky, Nw. slope, 150 ft.to ridge.

Cliff, 30 ft.high, brs.E. and W. Continue ascent to

Ridge, brs.NE. and Sw. Thence along east slope.

Small draw, course E. Ascend NE. slope, 15 ft.to

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in

the ground, for reestablished 52 mile cor., marked on
69.04
69.25
69.45
71.75
77.25
80.00
                       brass cap,
                                              1913 on S.rim,
                                              52 M W. of center,
                                              WMIR in W., and
PLin E.half; fr
                                     P L in E.half; from which,
A cedar, 6 ins. in diam., brs. N. 432 E., 51
lks.dist., marked W M I R 52 M P L B T.
                                   A cedar, 8 ins. in diam., brs. S. 29°E., 129 lks. dist., marked W M I R 52 M P L B T.

A pine, 7 ins. in diam., brs. S. 60°W., 37 lks.
                                          dist., marked W M I R 52 M B T.
                                     A cedar, 5 ins. in diam., brs.N.57°W.,64 lks. dist., marked W M I R 52 M B T.
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Resurvey of East bdy. of White Mountain or San Carlos Ind. Res.
Chains,
               Magnetic variation at this cor. is 12° 55 E.
               Land, mountainous and hilly.
               Soil very rocky, 4th rate.
               Timber, mesquite, pinon and cedar; ash, cottonwood and sycamore.
                                                                                           in the creek bottom,
               Undergrowth, scattering scrub oak and mesquite.
               South, on the east bdyl of the White Mountain Indian
                     Reservation. -
               Through scattering timber and dense undergrowth. Ascend
               NE. slope, 25 ft.to
Rocky spur ridge, brs.E.
                                                                     Descend SE slope, 85 ft.to
  1.52
  7¥288
               N.bank of Box canyon, with perpendicular sides, over which
               I cannot chain; therefore, I take stadia measurement to rod on line on opposite bank. Rod reading, 1.306 ft. Ratio, 1 ft.= 2 chs. Focal constant, 1.025 ft. Level. The dist. on line to rod is therefore, 1.306 x 2 plus .016 = 2.63 chs., which added to 7.28 chs. =

Stadia rod point on rocky spur ridge, brs.E. Chaining be-
9.91 Stadia rod point on rocky spur ridge, brs.E. Chaining being impossible, I take stadia measurement from here to the next accessible point on line. Rod reading, 3.064 ft. Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft. Vertical angle plus.9° 44. The distance on line to rod is therefore, 3.064 x 2 x .9714 plus .016 = 5.97 chs., which added to 9.91 chs. =

15.88 Stadia rod pt. on rock spur brs.E. Chaining being impossible I take stadia measurement to the next accessible point on the line. Rod reading, 1.140 ft. Ratio, 1 ft. 2 chs. Focal constant, 1.025 ft. Level. The dist. on line to rod is therefore, 1.140 x 2 plus .016 = 2.30 chs. which added to 15.88 chs.=
   9.91
chs., which added to 15.88 chs.=

18.18 Stadia rod point on rock spur brs.E. Thence across box
                    canyon 200 ft. deep, course E. Chaining being impossible, I leave rod at this point, and with instrument on line on opposite side, I take stadia measurement. Rod reading, 3.006 ft. Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft. Vertical angle, plus 6° 18'. The dist. on line to instrument is therefore, 3.006 x 2 x .9880 plus .016 = 5.95 chs., which added to 18.18 chs.
               Instrument point. Thence over broken rocky cliffs, bearing
24.13
                     N.and S. Chaining being impossible I take stadia meas+
                 urementatorod on line af next accessible point. Rod
                     reading, 1.823 ft. Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft. Level. Dist. on line to rod is therefore, 1.823 x 2 plus .016 = 3.66 whs., which added to 24.13 chase
27.79
               Stadia rod point on rocky point of cliff.
                      points of cliffs. Chaining being impossible, I leave rod at this point, and from instrument on line I
                    take stadia measurement. Red reading 3.481 ft. Ratio,

1 ft. = 2 chs. Focal constant, 1.025 ft. Vertical

angle plus 23° 40°. The dist. on line to instrument
is therefore, 3.481 x 2 x .8389 plus .016 chs. = 5.86 chs.

added to 27.79 chs. =
               Instrument point on short spur ridge, brs.E. Thence by
33.65
                      chain measurement. Descend.
35.00
               Draw, course E. Thence along broken E. slope; ascend.
36,00
37,00
38.00
               Ridge, brs.E. and W. Descend.
Draw, course SE. Ascend.
               Along E. slope; leave heavy timber. Enter dense inner-
                       growth.
               Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 52 mile cor., marked
40.00
                       on brass cap,

1913 on S.rim,

W M I R in W., and

52 M in E.half; from which,
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44 Resurvey of E.bdv. of White Mountain or San Carlos Ind. Res
                              An oak, 8 ins, in diam., brs.S.83 E., 185 lks. dist., marked W M I R 52 M P L B T.

A cedar, 10 ins. in diam., brs.N.3 W., 180 lks. dist., marked W M I R 52 M B T.
           Ascend NE. slope, 50 ft.
42.00
44.00
           Gulch, course NE.
47.00
49.43
            Gulch, course NE.
           Discontinue chaining, and take stadia measurement across
          a V-shaped rocky canyon, course E. Rod reading, 2.592 ft. Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft. Vertical angle, plus 4° 40'. The dist. on line to rod is therefore, 2.592 x 2 x .9934 plus .016 = 5.16 .chs., which added to 49.43 chs. =

Stadia rod point on spur brs. E. Chaining being impossible over another deep caryon. I take stadia moscorres
                                                                       Chaining being imposs-
54.59
                 ible over another deep canyon; I take stadia measure-
                 ment from instrument at this point to rod on line on
                opposite side. Rod reading, 7.257 ft. Ratio, 1 ft. 2.00 chs. Focal constant, 1.025 ft. Vertical angle plus 8°.28'. The distance on line to rod is therefore, 7.257 x 2 x .9783 plus .016 = 14.21 chs., which added to 54.59 ohs.
68.80
            Stadia red point on spur ridge, brs. SE. Descend SW. slope,
                 80 ft.to
            Canyon, course. Ascend NE. slope, 228 ft.to
72.00
            Rocky ridge, brs. NW. and SE. Descend SW. slope, 25 ft.to Set an iron post, 3 ft. long, 3 ins. indiam., 24 ins. in the ground, for reestablished 53 mile cor., marked on
 9.00
80.00
                 brass cap,
                                     1913 on S.rim,
53 M W.of center,
                                     WM I Rian W., and
     _ ^
                                     P-L in E.half;
                 and raise a mound of stone 3 ft. base, 2 ft.high, N. of
            cor. Pits impracticable.
The magnetic variation at this cor. is 13°40' E.
            Land, mountainous.
            Sbil very rocky, 4th rate.
            Timber, scattering cedar, mesquite and oak. Undergrowth, dense scrub oak and mesquite.
            Note: The sky was overcast at noon; making an observation
                 for latitude impossible.
                                                                      Nov.8, 1913.
            Nov.10,1913: At 7h.59m. a.m., l.m.t., I set off 33°9'N.on the decl.arcl 17°3'S. on the lat.arc, and determine
                 a meridian with the solar at the reestablished 53 mile corner on the East bdy of the White Mountain Indian Reservation, described above.
            Thence I run,
            South, on the East bdy. of the White Mountain Indian Res-
            Through scattering timber and dense undergrowth. Descend SW. slope, 200 ft. to
                  ervation.
            Canyon, course SE. Ascend NE. slope, 125 ft.to
Spur ridge, brs.E. Descend SE. slope, 50 ft.to
  7.80
 15.00
            Wash, course E. Ascend NE. slope, 50 ft.to
Spur ridge, brs.SE. Descend rocky S slope, 290 ft.to
 19.00
 24.20
            Eagle Creek, 20 lks.wide, 2 ft. deep, course W. Ledge of rock, 10 ft.high, brs. E. and W. Leave creek bottom,
 29•35
33•50
                   ascend NE. slope, 100 ft. to
            Thence over level bench.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the
 38.00
 40.00
                    ground, for reestablished 532 mile cor., marked on brass
                   cap,
                                      1913 on S.rim,
W M I R in W,, and
532 M in E.half; from which,
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Resurvey of East bdy. White Mountain or San Carlos Ind. Res.
Chains
                                 cedar, 10 ins. in diam., brs. S.72\frac{1}{4}°E., 114 lks.
                                 dist., marked W M I R 53 M P L B T.
                            A cedar limb, 6 ins. in diam., brs. S. 60°W., 188
                     lks.dist., marked W M I R 53 m B T. At this cor., Nov. 10, 1913; I set off 17°7 s. S. on
                 the declearc; and at apparent noon, I observe the sun
                on the meridian; the resulting late is 33°82'N.
           Ascend N. slope, 340 ft.to
41.00
           Red rock spur ridge, brs. NW. and SE. Descend SW. slope,
49.65
                 215 ft.to
           Draw, course W. Ascend NW. slope, 10 ft.to
Spur ridge, brs. W. Descend SW. slope, 120 ft.to
62.00
63.00
           Thence over level land.
70.00
 77.00
           Gulch, course W.
          Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 54 mile cor., marked on
80.00
               brass cap,
                                   1913 on S.rim,
                                   54 M W. of center,
                                  W M I Rain W., and P L in E half; from which,
                              A cedar, 12 ins. in diam., brs. N. 29 E., 165 lks. dist., marked W M I R 54 M P L B T
                             A cedar, 8 ins. in diam., brs.S.61°E., 229
lks.dist., marked W M I R 54 M P L B T.

A mesquite, 6 ins. in diam., brs.S.41°W.,105
lks.dist., marked W M I R 54 M B T.
           A mesquite 6 ins. in diam., brs.N.18°W., 411 lks.dist., marked W M I R 54 M B T.

The magnetic variation at this cor. is 13°10° E.
           Land, mountainous and hilly. Soil, very rocky, 4th rate.
           Timber, scattering cedar, oak and mesquite.
           Undergrowth, dense scrub oak and mesquite.
           South, on the East bdy. of the White Mountain Indian Res-
                ervation.
           Over level land, through scattering timber and dense un-
                dergrowth.
           Descend N. bank of Eagle Creek, 50 ft.
  2.00
  4.39
6.00
           Rocky cliff, brs. NW and SE.
           Foot of cliff, Eagle Creek, 90 lks.wide, 8 ins. deep.
                 course SE.
                                    Enter timber, brs. NW. and SE.
11.50
16.20
19.80
           Eagle Creek, 85 lks.wide, 8-ins.deep, course Sw.
           Foot of cliffs, bear NE. and SW. Spur ridge, brs. W. Descend SW. slope of river bank, 200
                 ft.to Eagle Creek.
          Gulch, course W. Continue descent.

Spur ridge, brs.W. Descend SW. slope into Eagle Creek.

Eagle Creek, 75 lks.wide, 6 ins.deep, course SE.

Trail, brs.SE. and NW. along river.

Leave river bottom; ascend NE. slope, 60 ft.
26.00
27.00
29.00
31.20
33.55
38.00
          Along broken E. slope.
          Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished 542 mile cor., marked
40.00
               the ground,
on brass cap,
1913 ons.rim,
W M I R in W., and
-1.1 M in E-half;
                             542 M in E-half; from which,
A walnut, 6 ins. in diam., brs. N. 562 E., 85
lks.dist., marked W M I R 542 M P L B T.
                             A cedar limb, 5 ins. in diam., brs. S 62 dew., 20 lks. dist., marked W M I R 54 d M B T.
                                                                         Nov.10,1913.
          Nov.11, 1913: At this core at 8h.10m, a.m., 1.m.t., I set off 33 7 2 N. on the latearc; 17°20 S. on the declearc,
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and determine a meridian with the solar.

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Resurvey of East bdy of White Mountain or San Carlos Ind Res
             From above described cor. I offset 1.72 chs. east to avoid
                  cliffs, and run south on the offset line, continuing
                    mile measurement.
40.60
             Irrigation ditch, 20 lks.wide, course SW.
             Eagle Creek, 60 lks.wide, 8 ins. deep, course SW. Thence along gravel creek bottom.
40.85
             Pole fence, brs. E. and W. Enter Mexican's garden.
48.94
             At this point, I offset, 1.72 chs.W.to-true line, and
51.72
                    runt,
             South, continuing measurement.
Enter irrigation ditch.
51.85
             Leave ditch, thence along east bank.
52.50
            Ascend NE. slope, 30 ft.

Irrigation ditch, 2 ft.wide, course SE.

J. Jaggri's house brs.due east, about 8 whs.dist.

Trail, brs.NE. and SW. Thence along broken east slope.

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished 55 mile cor., marked on brees can.
62.00
63.60
66.00
 79.80
80.00
                   brass cap,
                                          1913 on S.rim,
55 M W. of center,
                                        WMIR in W., and
                                          P L in E.half; from which,
                                  A mesquite, 6 ins. in diam., brs.N.65°E.,160 lks.dist., marked W M I R 55 M P L B T?

An oak, 5 ins. in diam., brs.S.342°W.,155 lks.dist., marked W M I R 55 M B T.
             No other trees within limits. Raise a mound of stone 3 ft.base, 2 ft.high, north of cor. Pits impracticable. Magnetic variation at this 55 mile cor. is 13°22'E. From this cor., Tom Ponce's ranch house brs.S.77° E., about
                   12 chs.dist.
             A 3-strand wire fence, brs. NE and SW., 5 lks. east of cor.
             Land, mountainous and rolling.
              Soil, very rocky, 4th rate.
              Timber, scattering cedar and oak.
              Undergrowth, scattering oak and mesquite.
              South, on the east bdy. of the White Mountain Indian Reser-
                     vation.
              Over level land, through dense undergrowth.
    •00
              Wire fence brs. NE. and SW. Enter field.
              Wash, 90 lks.wide, 3 ft. deep, course E. Ascend NE. slope, 410 ft. to ridge.
    • 65
 2.50
5.55
12.00
             Wire fence brs. SE. and NW. Leave field.

Orchard, brs. east 6 chs. dist.

Spur ridge, brs. NE. Descend SE. slope, 30 ft. to

Draw, course NE. Ascend N. slope, 210 ft. to ridge.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in

the ground, for reestablished 55½ mile cor., marked on
 27.00
 33.00
40.00
                     brass cap,
                                           1913 on S.rim,
W M I R in W.,
                                                                       and
                                     W M I K in W., and
55 M in E.half; from which,
A pine, 12 ins. in diam., brs.S.14°E.,44 lks.
dist., marked W M I R 55 M P L B T.
A pine, 14 ins. in diam., brs.S 20 %.,93 lks.
dist., marked W M I R 55 M B T.
              Note: At this core, Novell, 1913, I set off 17°24'S.on
                      the decleare, and at apparent noon, observe the sun on the meridian; the resulting laters 33° 7'N.
              on the meridian; the resulting late 18 33 7 N.
Cliff, 20 ft.high, brs.E. and W.
Rock point, 60 ft.high.
Ridge, brs.SE and NW. Descend SW. slope, 50 ft.to
Head of canyon, course NW. Ascend N. slope, 495 ft.to
Ridge, brs.SE and NW. Descend S. slope, 350 ft.to
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for recetablished 56 milested
 40.50
 41.05
 42.00
 49.00
 80.00
                    the ground, for reestablished 56 mile cor., marked on
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Resugrey of East bdy. of White Mountain or San Carlow Ind. Res.
Chains.
                      brass cap,
                                                 1913 on S.rim,
56 M W.of center,
                                     W M I R in W., and
P L in E.half; from which,
A pine 8 ins. in diam., brs.S. 7°E.,205 lks.
dist., marked W M I R 56 M P L B T.
               No other trees, within limits. Raise a mound of stone, 3 ft.base, 2 ft.high, north of cor. Pits impracticable. Magnetic variation at this cor. is 13°2 E.
               Land, mountainous.
               Soil, rocky, 4th rate.
               Timber, scattering cedar, oak and pinon.
Undergrowth, dense scrub oak and mesquite.
               South, on the east bdy. of the White Mountain Indian Res-
                      ervation.
               Through scattering timber. and dense undergrowth. Descend
                    SW· slope, 110 ft.to
              Canyon, course SE. Ascend NE. slope, 15 ft.to
Spur ridge, brs.SE. Descend SW. slope, 45 ft.to
Canyon, course E.; ascend N. slope, 480 ft.to mesa.
3.90.
-6.00
  8.00
10.00
               Ascend NW. slope.
               Thence over level mesa.
21.50
                                                                                                  Nov.11,1913.
               Nov.12, 1913: At this point, at 8h.55m. a.m.,1.m.t.,I set off 35°6'N. on the lat.arc; 17°39'S. on the decl.arc; and determine a meridian with the solar.
27.50
37.50
40.00
               Descend SW. slope, 85 ft.to
              Draw, course W. Ascend NW. slope, 400 ft.to ridge.

Set an iron post, 3 ft. long, line in diame, 26 ins. in
the ground, for reestablished 56 mile core, marked on
                      brass cap,
                                         1913 on S.rim,
W M I R in W., and
56 M-in E half; from which,
A pine, 6 ins. in diam., brs.N.45 E.,49 lks.
dist., marked W M I R 56 M P L B T.
A pine, 10 ins., in diam., brs. N.90W., 6 lks.
dist., marked W M I R 56 M B T.
              Spur ridge, brs.W. Descend SW. slope, 35 ft.to
Draw, course NW. Ascend NW. slope, 240 ft.to ridge.
Ridge, brs.NE. and SW. Descend SE. slope, 144 ft.to
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 57 mile cor., marked on
57.00
61.00
71.00
80.00
                        brass cap,
                                                 1913 on S.rim,
                                                 57 M W. of center,
              57 M W. of center,
W M I R in W., and
P L in Ehalf; from which,
A pine, 12 ins. in diam., brs.N.652°E.,49 lks.
dist., marked W MI R 57 M P L B T.
A cedar, 8 ins. in diam., brs.S.462°E.,45 lks.
dist., marked W M I R 57 M P L B T.
A pine, 6 ins. in diam., brs.S.15°W.,115 lks.
dist., marked W M I R 57 M B T.
A cedar limb,5 ins. in diam., brs.N.67°W.,82
lks.dist., marked W M I R 57 M B T.
Mag. var. at this cor.is 11°30° E.
Land, mountainous and hilly.
               Land, mountainous and hilly.
               Soil, rocky, 4th rate.
Timber, scattering cedar, pinon and oak.
               Undergrowth, dense scrub oak and mesquite.
               South, on the east bdy. of the White Mountain Indian Reser-
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vation.
Through scattering timber and dense undergrowth. Descend

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Resurvey of East bdw of White
Chains.
                  SE slope, 20 ft to
          Gulch, course E. Ascend NE. slope, 25 ft.to
Spur ridge, brs.E. Descend SE. slope, 315 ft.to
Canyon, course E. Ascend NE. slope, 520 ft.to
Spur ridge brs. NW. Thence along W. slope.
Ascend NW. slope, 260 ft.to ridge.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished 57 mile cor., marked
on brass can.
 1.25
4.50
14.75
26.30
32.30
40.00
                on brass cap,
                                    1913 on S.rim,
                                    W M I R in W.,
                                                           and
                                    57意 M in E.half;
                and raise a mound of stone 3 ft.base, 2 ft. high, west
                of cor. Pits impracticable.
           Ridge, brs.NE. and SW. Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished SE.
49.63
                cor. of the White Mountain Indian Reservation, marked
                on brass cap,

1913 on S.rim,

in W.,
                                      WMIRin W.,
                                      P L in E.half; and
                               S E cor. on NW. quad.; from which,
A juniper, 5 ins. in diam., brs.S.734°E.,13.
lks.dist., marked W. M I R SE cor. P L BT.
                               A juniper, 4 ins. in diam., brs.S.854°W.,37. lks.dist., marked W M I R.SE. cor. BT.
           No other trees within limits. Raise a mound of stone 3 ft. base. 2 ft. high, N. of cor. Pits impracticable. Magnetic variation at this cor. is 13° 40 E.
           Land, mountainous and hilly. Soil, very rocky, 4th rate.
           Undergrowth, dense scrub oak and mesquite.
           Timber, scattering cedar, pinon and oak.
           From the Reestablished SE. cor. of the White Mountain
           Indian Reservation, above described, I run, S.20°47 W.
           Ascend slight NE. slope, to
           Thence along steep east slope, to
7.50
14.00
           Rocky spur brs. SE. Descend east slope,
                                                                                  35 ft.to
           Head of wash, course E. Ascend NE slope, 50 ft.to Rocky spur ridge, brs. SE; descend.
15.00
             Head of wash, course E. Asc. rocky broken NH. slope,
22.00
                 225 ft.
             Rocky ledge, brs. N. and S.
27.00
             Rocky spur ridge, brs. E.

Rocky ledge, brs. N. and S.

Ledge, brs. N. and S. Thence along top of mountain.

To center of mound, 5 fee base, 7 ft. night, marked on flat rock 3 ft. S. of center of mound, WMIR
28,00
31.50
33.00
 37.77
                 Marked on flat rock, 4 ft. N. of center ofmound,
                 50+51.95
                 Marked on flat roll, abomound, GREENLEE COUNTXY.
                                                     bout 8 ft. NE. of center of
                 Marked on flet rock, about 12 ft. SW. of center of
                 mound, GRA CO.
             From this monument, a monument, 5 ft. base, 5 ft. high, marked WMIR on flat rock, 4 ft. S. of center, brs. S. 43° 30' W., 152.31 chs. dist. as determined by tries.
                 angulation using a base line 25.00 chs.in length.
                                                                                 Nov. 12, 4913.
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CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby ce	ertify upon hor	nor that	we assist	ted, to t	the best	of our skill and ability
William B. Kimmel	, T	J. S. Sur	veyor, d	uring t	he perio	ds and in the capacities
stated opposite our several signatur	res, in surveyi	ng all the	se parts	or por	tions of .	the East bdy.
of the Fort Apache Indi	an Reserva	ation	and 1	the E	ast bd	ly. of the
White Mountain or San			-			
						•
East	of the					
		eridian, in the State of Arizona. Sees as having been executed by him, and under his director, to the best of our knowledge and belief, well and PERIOD OF SERVICE. CAPACITY.				
tion; and that said survey has been	n, in all respec	cts, to th	e best o	f our l	knowledg	ge and belief, well and
faithfully executed.						
NAME.	PERIOD O		F SERVICE.			CAPACITY
	Begun.		ENDED.			
O O Bron	Sept. 9,	1913.	Nov.	19,	1913.	Axman.
Z To The second	Aug. 30,	1913.	Dec.	23,	1913.	Flagman.
SH Feland	!					
Alrey bleman	1				l.	Moundman.
7,500,500	DODO I	1319.	LHQV.	4, 1	914.	Chainman
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		·				·
•						···
			••••••			·
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Subscribed and certified to before me on the dates of the final service as shown above.

William B. Kimmel.
U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

	I, William B. Kimmel , U. S. Surveyor, do solemnly swear that, in pursuance
	of special instructions received from the U. S. Surveyor General for Arizona for Group 26
	bearing date of the 18 th day of February ,191 3, I have well, faithfully, and truly,
	in my own proper person, and in strict conformity with said instructions, the Manual of Surveying
	Instructions, and the laws of the United States surveyed all those parts or portions of the East
	bdy. of the Fort Apache Indian Reservation and the East bdy.of the
	White Mountain or San Carlos Indian Reservation
	East of the Gila and
	Salt River Meridian, in the State of Arizona, which are represented in
	the foregoing field notes as having been executed by me, and under my direction; and I do further
	solemnly swear that all the corners of said survey have been established and perpetuated in strict accord-
	ance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor
	General for Arizona for Group26 and in the specific manner described in the field notes, and that
	the foregoing are the original field notes of such survey.
	. William B. Kimmel. U. S. Surveyor.
	Subscribed by said Miliam & Annuell, and sworn to before me this 4th day of March, 1915
	this 4th day of Man Chi
	Jank Ingalls
	SURVEYOR-GENERAL OF ARIZONA

	APPROVAL.
	OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
	Phoenix Ariz. June 19, 195
	The foregoing field notes of the survey of the East bdy of the Fort Apache
	Indian Reservation and the East bdy of the White Mountain or
	Sen Carlos Indian Reservation
	East of the Gila and Salt River Meridian, in the State of Arizona.
	The state of the s
	executed by William B. Kimmel, U.S. Surveyor
	under his special instructions dated February 18, 1913 for Group 26, 191, having been
	critically examined, and the necessary corrections and explanations made, the said field notes, and the
1	resurveys they describe, are hereby approved. (And Ingall) S. Surveyor General.
	of Arizona. Learning that the foregoing transcript of the field notes of the above-described surveys in
	, has been correctly copied from the original notes on file in this office.
	, has been correctly copied from the original notes on his in this office.